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DEPARTMENT OF
PUBLIC
WORKS

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ANNUAL REPORT

1966 - 1967



ANNUAL REPORT
of the
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1967

JOHN F. SHELLEY_____ **Mayor**
THOMAS J. MELLON_____ **Chief Administrative Officer**
S. MYRON TATARIAN_____ **Director of Public Works**

Material compiled by John A. Jelincich, Bureau of Engineering

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COVER PHOTO

Mechanics Institute At Market, Bush and Battery Streets
Dedicated To Mechanics By James Mervyn Donahue
In Memory Of His Father, Peter Donahue

Photo by John A. Jelincich, Bureau of Engineering

MAYOR
JOHN F. SHELLEY

**CHIEF
ADMINISTRATIVE
OFFICER**
THOMAS J. MELLON

DIRECTOR
S. MYRON TATARIAN

DEPARTMENT OF PUBLIC WORKS



**CITY AND COUNTY OF
SAN FRANCISCO**

**JUNE 30, 1967
ORGANIZATION CHART**

**ASSISTANT
DIRECTOR**
ADMINISTRATIVE
R. BROOKS LARTER

**GENERAL
OFFICE**

**BUREAU OF
ACCOUNTS**
SUPERVISOR
JUN IWAMOTO

**PERSONNEL
ADMINISTRATION**
SUPERVISOR
ALBERT C. AMBROSE

**CENTRAL PERMIT
BUREAU**
SUPERVISOR
GILBERT H. BOREMAN

**ASSISTANT
DIRECTOR**
**MAINTAINANCE
AND OPERATION**
ARVID H. EKENBERG

**BUREAU OF SEWER
REPAIR & SEWAGE
TREATMENT**
SUPERINTENDENT
KEENO FRASCHINA

**BUREAU OF
STREET REPAIR**
SUPERINTENDENT
CHARLES F. McFADDEN

**BUREAU OF
BUILDING
REPAIR**
SUPERINTENDENT
JOHN S. RUTHERFORD

**BUREAU OF
STREET CLEANING
AND PLANTING**
SUPERINTENDENT
BERNARD M. CROTTY

**BUREAU OF
ENGINEERING**
CITY ENGINEER
CLIFFORD J. GEERTZ

**BUREAU OF
ARCHITECTURE**
CITY ARCHITECT
CHARLES W. GRIFFITH

**BUREAU OF
BUILDING
INSPECTION**
SUPERINTENDENT
ROBERT C. LEVY

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE
DIRECTOR OF PUBLIC WORKS

January 5, 1968

260 CITY HALL
SAN FRANCISCO
CALIFORNIA 94102
Annual Report
1966-1967

Mr. Thomas J. Mellon
Chief Administrative Officer
City and County of San Francisco

Dear Mr. Mellon:

In compliance with the provisions of Section 20 of the charter of the City and County of San Francisco, I submit the annual report of the Department of Public Works for the fiscal year ending June 30, 1967.

The Department budget totaled \$31,659,692 from the following budgeted sources: General Fund, Special Gas Tax Street Improvement Fund and Road Fund. The amount actually expended was \$25,443,906.

During the year, the Department awarded 425 contracts for a total bid amount of \$28,893,349. These figures represent an increase of 26% in the number of contracts and an increase of 6% in the value of the contracts awarded.

Major projects completed or under construction include Southeast Sewage Treatment Plant Effluent Outfall Sewer, Sewer Relocations in connection with the Rapid Transit Construction, Educational Services Building at City College, Diamond Heights School, Palace of Fine Arts Reconstruction, Bayview and Westside Health Centers, and Junior Boys Facility at Log Cabin Ranch.

Private building activity continued at a high cost volume estimated at \$199,800,000, an increase of 4%. The number of building permits issued totaled 12,489, a decrease of 6%. High-rise office building construction accounted for the bulk of the new work with residential construction curtailed sharply due to the "tight" money market.

Unusual activities during the year included the completion of the initial steps on the 34 million-dollar San Francisco Medical Center project, such as the selection of the architectural firm for the design, the development of the Master Site Plan, and the finalizing of the topographic, boundary and on site utilities surveys. Also, in this past year, we have instituted a new urban renewal tool, the Federally Assisted Code Enforcement (FACE) program, whereby we will derive aid from the Federal Government totaling \$2,984,164 over a 3-year period. Also, the much publicized proposal of consolidating certain inspection services into this Department was actually accomplished during the year with transfers of personnel from the Fire and Public Health Departments.

The Assistant Directors, the Bureau Heads, their staffs and the personnel of the Department have my sincere thanks for their fine efforts and cooperation. I also wish to express my appreciation to you for your generous support in solving the many problems of the Department.

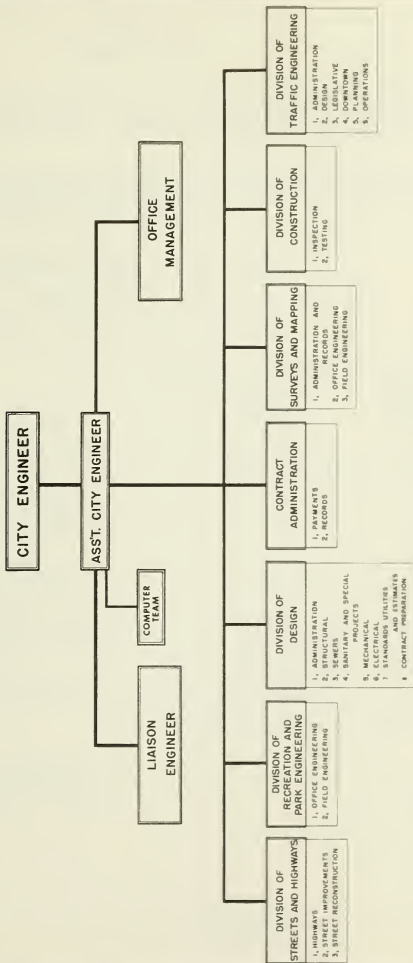
Very truly yours,



S. M. Tatariian
Director of Public Works

ORGANIZATION CHART

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
JUNE 30, 1967



BUREAU OF ENGINEERING

Clifford J. Geertz, City Engineer

GENERAL DATA

The Bureau of Engineering processed and awarded 120 contracts with an aggregate value of \$5,672,905. Contract payments amounted to \$5,863,570.

The number of contracts awarded decreased slightly over the 1965-1966 fiscal year with the value of awards and amounts expended decreasing by approximately 14% and 17% respectively.

CURRENT CONTRACT DATA SUMMARY

SHOWING ALL CONTRACT WORK AWARDED OR UNDER WAY

July 1, 1966 - June 30, 1967

Table	Type of Construction	No.	Contracts Awarded	Amount
			Aggregate Value	Expended Fiscal Year 1966-67
A	Major Thoroughfares	2	\$239,499.06	\$352,852.37
B-1	Streets - Private Contracts	8	209,800.00	200,920.00
B-2	Streets - Assessment			
	Proceedings	10	458,867.02	374,243.45
B-3	Streets - Public Contract			
	City Pay	11	599,961.44	541,803.20
C	Traffic Signals and			
	Channelization	6	347,452.62	207,042.27
D-1	Sewers - Vitrified Clay and			
	Concrete	15	2,185,715.49	1,473,355.95
D-2	Sewers - Concrete Monolithic	1	260,613.00	828,760.94
E	Recreation - Park	16	725,559.03	768,340.85
F	Miscellaneous	25	528,768.01	1,041,057.31
G	Informal and Emergency	26	116,669.37	75,194.37
Totals		120	\$5,672,905.04	\$5,863,570.71

ENGINEERING PLANS AND
SPECIFICATIONS FOR BUREAU
OF ARCHITECTURE

33 Contracts \$976,505.00

B.A.R.T.D.

11 Contracts \$2,975,488.00

Grand Total \$9,624,988.04

TWO TERMINALS FOR THE COMPUTER GROUP

As the demand for computer time on the City's central data processing facilities by various City departments increased, it was realized that efficient solution of engineering problems of the Bureau will require a large capacity machine with a minimum of computer time and rapid turn-around time. After substantial research on the subject, two 1050 teleprocessing terminals were leased from IBM Corporation. These terminals communicate via telephone lines with a large computer located in Los Angeles. To provide computer access to the largest number of engineers, the terminals are located at the Hyde Street and City Hall offices of the Bureau. The unit at the City Hall office is provided with a punched-card reader.

Using QUICKTRAN, the engineer can avail himself of IBM's general engineering library of programs, or may write, test, and store programs of his own, all at fingertip control. A number of engineers have completed programming courses offered by the City.

Programs from our existing library were converted and updated for terminal use on the 1050. Provided with ease of operation and open shop availability, engineers are encouraged to write their own programs for limited use or unusual problems. Problems requiring unusual programming techniques or benefiting a number of design sections are handled by the Computer Group.

Benefits realized with the use of the terminals are:

1. Time-consuming routine calculations are expedited. The TRAVER and COGO programs proved to be more than five times faster than the manual method for traverse area problems.
2. An arithmetic check of calculations by a second party can be eliminated, as all input data is printed on the typewriter. For earthwork calculations, the program VOL requires only a check of the elevation and offset data on the printout sheet.
3. A more sophisticated design using current engineering approaches can be attempted, such as matrix manipulation in structural design.
4. Investigations can be made which normally would not be attempted due to the length of time involved. A large sewer network that would normally require five days is completed in less than two hours using the SEWNET program.
5. The high speed of the computer allows the engineer to make trial solutions to obtain the most economical. An analysis of a ten-span bridge requires only 30 minutes using the HINGE or HAUNCH programs, as compared to about one and a half days manually.

The structural design on the Army Street Circle Rechannelization project is an excellent example of the gains outlined above. The final analysis that resulted in the esthetic appearance, quality, and economy of the curved and multi-laned ramps and viaducts would not have been made on schedule without the computer bearing the burden of calculation

BETTER STREETS FOR THE GOLDEN GATEWAY

One by one the multi-story buildings reached their predestined heights, and as they were being prepared for occupancy, streets bordering the new high-rise structures were widened and reconstructed to provide proper traffic service for a historically old but dramatically revitalized sector of the City that was officially designated as Approved Redevelopment Area E-1 but has since been pridefully known as The Golden Gateway.

With direct connections to the Embarcadero Freeway, Washington Street and Clay Street led to the center of the Golden Gateway. They formed a one-way couplet that straddled a building complex consisting of a two-block long public garage and the tall Alcoa office building. Previously one-lane roadways, the two streets were widened to permit three traffic lanes plus a service lane adjacent to the public garage.

Battery Street, bordering the public garage to the west, was also widened for three traffic lanes and one service lane. Jackson Street, one block to the north of Washington Street, was reconstructed with but minor roadway widening.



WASHINGTON STREET WIDENING

Looking ahead to the east, a portion of the Freeway off-ramp can be seen behind the storage van. Battery Street is in the foreground.

PINE STREET WIDENING

Pine Street is an important one-way street leading from the financial district and the adjacent downtown area to the outlying residential areas comprising the Richmond and Sunset districts. The first stage improvement of this major thoroughfare took place on the block between Franklin and Gough Streets, where the sidewalks were narrowed from 15 feet to 10 feet. At the same time, the entire pavement was reconstructed, and overhead utilities were placed underground.

The roadway widening provided an additional through traffic lane on Pine Street to alleviate left-turn congestion at Gough Street.



Franklin Street is in the foreground. "Tow-away" is in effect during the evening peak hours to permit an additional lane along the left curb for left turns.

STREET IMPROVEMENTS

For the 1966-67 Fiscal Year, seven street improvement projects were completed by public contract, with an aggregate value of \$282,400. Of this amount, \$99,200 was borne by property owners who benefited from and were assessed for the improvements.

During the same period, there were 11 private contracts, providing \$220,600 worth of street improvements.



14TH AVENUE, QUINTARA ST. TO RIVERA ST.

Opens a major access route into Golden Gate Heights. Development has already begun on the view lots fronting this avenue.



ANDERSON STREET, SOUTH OF CRESCENT AVENUE

Hitherto unusable property is now available for development.



27TH STREET, CASTRO ST. TO NOE ST.

Valuable land, zoned R-3, was inaccessible for development before this improvement. The steep topography necessitated a split level design.

STREET AND SIDEWALK INSPECTIONS

In order to implement the accelerated sidewalk inspection program, the inspection district system was put into operation. The City was geographically divided into six districts, with an inspector assigned to each district. For flexibility when special situations arise, and to insure continuity in inspection services, each pair of districts was put under the control of a supervising inspector. The district system has worked out well, allowing field inspections to be made daily without neglecting office reports and duties. The district system did not require any increase in inspection personnel.

Inspection personnel assisted the City Attorney's Office in the handling of bodily injury and property damage claims against the City and County of San Francisco, mainly from street or sidewalk usage. Such assistance involved claim investigation reports, personal consultations with Deputy City Attorneys, depositions, answers to interrogatories, and personal court appearances. During the 1966-67 Fiscal Year some 248 claim investigations were made, with 71 claims disposed of. Of the 71 claims, 23 were won by the City or were dismissed. A total of \$1,636,712 was sought by claimants in the remaining 48 claims, with the City yielding \$67,778 through judgments or litigated settlements.

The collection of street space permit fees for the 1966-67 Fiscal Year was again higher than the previous fiscal year. Through continuing concentrated effort by the inspectors in screening building permit applications at the Bureau of Building Inspection, greater control and regulation of street space use were obtained.



BEFORE



AFTER

BEACH STREET, FRONTING CANNERY BUILDING
SIDEWALK OBSTRUCTION AND IMPROVEMENT

DIVISION OF RECREATION-PARK ENGINEERING

KIMBELL AND CASEY PARKS

Whenever the construction of a new park or recreation area is undertaken in San Francisco the work almost invariably takes place on a difficult building site or it is necessary to demolish existing structures to provide the space required. It is not that the steepest crags are reserved for parks and playgrounds or that deliberate attempts are made to provide challenges for engineers; the fact is that San Francisco's topography and geography, its population density, and its existence for over 100 years have made ideal construction sites a rare commodity in this City. Our two newest park-like recreation facilities bear testimony to the foregoing maxim.

The "tear something down" approach was employed in the construction of the Raymond S. Kimbell Park in the Western Addition. Two square City blocks of pre-earthquake, run-down dwellings were demolished in Redevelopment Area E-1 to provide space for the new park.

The "build-it-on-a-cliff" method was necessary in the construction of Sunnyside Park (renamed M. M. Casey Recreation Area). The design, however, took full advantage of the vacation of a portion of Melrose Street east of Foerster and the acquisition of certain private lots fronting thereon.

The two parks contrast markedly in terrain and utility. Kimbell contains "hidden" concrete bleachers, two baseball fields, track and field facilities, and a fieldhouse, all set on a relatively flat area. Casey has tennis and basketball courts, a midget softball field, and probably the steepest terrain extant for a recreational facility of this type. From the level of the softball field to the park entrance at Teresita Boulevard the site climbs 86 feet vertically in a horizontal distance of 350 feet. Yet in spite of this gradient, bus-riding senior citizens can enjoy the park's passive features with little or no uphill climbing and without the need to negotiate a single up-step. They simply disembark from the bus at the Teresita Boulevard entrance and re-board for their return trip at Foerster Street and Mangels Avenue near the opposite entrance, 110 feet lower in elevation than their point of entry.

However, baseball fields, concrete bleachers, playing courts, running tracks, jumping pits, demolished slum dwellings, and steep hills are not the entire story of Kimbell and Casey. Nor are they the main part of the story. The most significant feature of these parks is the one thing they have in common -- a park-like quality that is unmatched by any other purely recreational facility built to date in San Francisco. The two sites together will contain a total of 440 trees in an aggregate area of 7½ acres, which includes the two full-size baseball fields. Also included is an abundance of tasteful detail to provide the public with much opportunity to discover new and interesting features at every vista.



THE RAYMOND S. KIMBELL PARK
IN THE WESTERN ADDITION AREA
OF SAN FRANCISCO



It appears that the Bureau's own landscape architects have solved the problem of making an athletic facility or a playground look like a park. All the landscape design and consultant work for the parks (we must call them parks) was performed by the landscape architects in the Bureau of Engineering, the only ones so employed by any City department or bureau. In fact, the complete planning, design, and engineering package for both projects (excluding the Kimbell field-house) was the exclusive creation of the staff of the Bureau of Engineering.

Kimbell Park and Casey Park (under construction at this writing) will probably be referred to by the misnomer, "playground", but as the Bureau designs more and more parks in which basketball, baseball, tennis, etc. can be played it is hoped that the park users will adopt the appropriate reference for them. When this occurs we will know that we will have achieved our goal.



SUNNYSIDE PARK LOOKING EAST FROM
MELROSE AND STANFORD HEIGHTS AVENUES
BEFORE CONSTRUCTION



M. M. CASEY RECREATION AREA
FORMERLY SUNNYSIDE PARK
AFTER CONSTRUCTION



DIVISION OF TRAFFIC ENGINEERING

TRAFFIC DESIGN SECTION

The Traffic Design Section, under Richard Evans, is responsible for traffic routing around Public Works construction projects and for the functional design of new intersection channelization and traffic signal installations. The fact that San Francisco is the center of one of the most rapidly developing areas in the country increases the challenge of meeting the ever-growing demands for safer and more efficient traffic movement.

Traffic signals are utilized when an intersection needs a more definite indication of right-of-way or to develop and protect major trafficways. Channelization of an intersection is often necessary to pre-direct traffic patterns and to reduce the area of conflict and present an indication of right-of-way.

Landscaping, sewer and pavement reconstruction and, most recently, the Army Street Circle Project, are among the array of Public Works construction projects that require traffic routing specifications. Any street construction project will present a problem that must be solved with as little hardship as possible to either the motorist or the construction force. The solutions vary from prohibiting parking to building new temporary roadways with traffic signals.

HAIGHT STREET TRAFFIC LANES

The "hippy" influx in San Francisco has resulted in severe traffic problems on Haight Street, the business artery of the Haight-Ashbury District. Daily traffic increased from 9,212 to 16,221 in a 3-year period and as a result there was extreme congestion on Haight Street. To help counter this, the Division of Traffic Engineering restriped the street from two to three lanes, providing two lanes in the westbound direction. The results shown in the graph were impressive for westbound traffic, although eastbound traffic remained severely congested. Westbound travel time dropped 50 percent, while the average travel time for both directions dropped 22 percent. This is another indication that with rather minimal expenditure, good traffic engineering operational measures can increase street capacity tremendously.

BARTD CONSTRUCTION

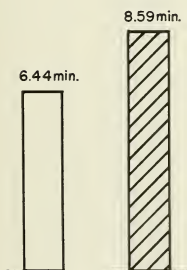
Construction on BARTD is finally under way, with nine contracts being awarded during the year and tunnel lines already under construction between the Civic Center Station and the Sixteenth Street Station. Close liaison between BARTD contractors and the Traffic Engineering Division is being maintained in order to facilitate traffic movement in and around construction areas. So far, the traffic measures taken involve re-routing buses off Mission Street, installing tow-away restrictions on Folsom Street and South Van Ness Avenue, and making cross-streets one way in the Mission District. In July, however, major detouring will take place on Market and Mission Streets, with Mission Street being entirely closed to traffic and only transit vehicles being allowed to use Market Street in the station areas. Detailed plans are now being prepared for these traffic diversions.

HAIGHT STREET TRAVEL TIME

BEFORE AND AFTER OFFSET LANES

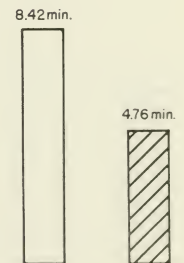
EASTBOUND

P.M. PEAK



WESTBOUND

P. M. PEAK



LEGEND:



BEFORE



AFTER

TRAFFIC CONTROL DURING CONSTRUCTION

This past year has witnessed a sharp increase in the use of powers granted to the Department of Public works under Section 33.1 of the Traffic Code. This legislation was secured four years ago in order to facilitate the installation of traffic control measures necessitated by construction on or adjacent to the City streets. It obviates the necessity of securing legislation from the Board of Supervisors for the establishment of temporary traffic control, such as NO LEFT TURN, TOW-AWAY, ONE WAY, etc., which has been made necessary by construction. The measures require only a departmental order by the Director of Public Works. With these powers, needed traffic control can be established within one or two days rather than the two to three month period previously needed.

GREAT HIGHWAY AND SLOAT BOULEVARD CHANNELIZATION

The channelization shown on the accompanying photographs will, it is believed, diminish a severe accident problem at the intersection of Sloat Boulevard and Great Highway. The great size of the intersection coupled with high speeds and numerous conflicts result in an average of 16 accidents per year at this location. It was feared that because of the speeds, traffic signals would not be very effective. It was decided instead to channelize the intersection to reduce the area of exposure between entering vehicles and between vehicles and pedestrians. The channelization was accomplished at a total cost of \$3100.00 and was performed by City forces.

NIGHTTIME TOW-AWAY ON BROADWAY

The gala night life in the Broadway area resulted in such severe congestion that it necessitated an entirely new type of parking restriction in that area. The restriction prohibits the stopping of vehicles on Broadway between the hours of 6:00 PM and 1:00 AM on Friday and Saturday nights. This legislation was proposed by the Fire Department, who felt that in case of a conflagration, response by the Department would be almost impossible. The initial sign installations were unsatisfactory, and approximately 27 vehicles per night were being towed away. To remedy this situation, new supplementary signs were installed as shown on parking meter posts, and since then the number of tow-aways has dropped to eight. Complaints also have vanished, and the situation appears to be much more satisfactory.



HAIGHT STREET
PAVEMENT STRIPING
BEFORE



HAIGHT STREET
PAVEMENT STRIPING
AFTER



MISSION STREET
TRAFFIC DIVERSION DURING
BARTD CONSTRUCTION



MISSION STREET
TEMPORARY ROADWAY FOR
BARTD CONSTRUCTION



TRAFFIC CONTROLS CAN BE
QUICKLEY INSTALLED
UNDER SECTION 33.1 OF
THE TRAFFIC CODE

SPECIAL NITE LIFE
TOW-AWAY SIGNS ON
BROADWAY



CHANNELIZATION
SLOAT BOULEVARD
AND
GREAT HIGHWAY

MISCELLANEOUS INVESTIGATIONS

	Number of Investigations Made
Written Reports to San Francisco Parking Authority	18
Advisory Appearance and Conferences with San Francisco Parking Authority	40
Formal STOP and YIELD Sign Investigations	147
Formal Parking Control Investigations	66
Formal Traffic Signal Investigations	57
Other Formal Investigations	256

TRAFFIC LEGISLATION

	Completed 1966-67	Deleted 1966-67	Number In Place 1966-67
Stop Intersections	60	7	1,860
Yield Intersections		1	22
Through Streets, Miles	2.2		99.3
One-Way Streets, Miles	1.6		77.0
Speed Zones (other than 25)	1.2		66.4
Turn Restrictions (24 hours)	23	2	
Turn Restrictions (Peak Hours)	8	1	
Towaway: Block Faces	35		
Time Limit: Block Faces	35		
Angle Parking: Block Faces	13		
Other Turn Controls	4		
No Parking Any Time: Block Faces	35		
Items discussed at ISCOTT	528		
Items having Department Public Hearing	91		
Items to Board of Supervisors for Action	117		
Items handled under Sec. 33.1	11		

PAVEMENT PAINTING

	Completed
Standard Striping, miles	619.4
12-inch Stripes, miles	150.2
Pavement Words (Units)	87.7
(Cost included in other items)	
Bus Zones (Units)	126.7
Parking Stalls (Units - all types)	66.3
New School Intersections	11
Total School Intersections in Place June 30, 1967	946
Pounds of Reflective Beads Used	40,962
9" Stripes, miles	78.3

TRAFFIC AND STREET NAME SIGNS

Completed
1966-67

TRAFFIC SIGNS

Parking Signs Installed	476
Parking Signs Repaired or Changed	682
Parking Signs Removed	133
Other Signs Installed	563
Other Signs Repaired or Changed	874
Other Signs Removed	137
Stop Signs Installed	118
Stop Signs Repaired or Changed	203
Stop Signs Removed	24

TOTAL 3,218

Estimated Approximate Cost 1966-67 \$53,000

Estimated Total Number in Place June 30, 1967 33,000

STREET NAME SIGNS

Street Signs Repaired or Changed	1,152
Street Signs Installed	23

TOTAL 1,175

Estimated Approximate Cost 1966-67 \$30,000

Estimated Total Number in Place June 30, 1967 7,500

PARKING METERS

New or Amended Zones	1
New Installations	26
New Installations in Public Parking Lots	0
Removals	123
Installations	173
Relocations	161
Temporary Removals	317

Approximate Cost 1966-67 \$3,500

Total Number in Place June 30, 1967 12,797

The above table does not include the normal maintenance of parking meters performed by the Department of Electricity.

TRAFFIC SIGNALS AND CHANNELIZATION

	Completed <u>1966-67</u>	Number In Place <u>6-30-67</u>
CHANNELIZED INTERSECTIONS		
Concrete Islands	4	249
Raised Pavement Bars	<u>-1</u>	<u>44</u>
TOTAL	3	293
SIGNALIZED INTERSECTIONS		
3-Light Installations	15	743
Equipped with Pedestrian Signals	15	210
Actuated Signals Added	1	175

DIVISION OF CONSTRUCTION
MATERIALS TESTING LABORATORY

Operating under the administration of the Construction Division, this Section furnishes testing and evaluation services for the entire Bureau in addition to maintaining materials quality control for the Inspection Section. Interdepartmental and Interbureau work, consisting chiefly of concrete, soil and reinforcing steel tests, is performed as requested. Figure I shows the percentage of work performed for each unit.

During the past year the Materials Testing Laboratory has extended its usefulness and effectiveness in a variety of ways. This has been reflected in more efficient design and an over-all increase in the quality of materials used in Bureau projects. Streets and highway pavement design problems have been simplified by Laboratory reports detailing the existing pavement cross-sections and the type and bearing value of subgrade material. Quality control of construction materials has improved as a result of an increase in laboratory personnel. This increase has permitted the upgrading of existing testing techniques to professional standards, the introduction of new tests and methods, and the inspection of materials at their source of manufacture, as well as a general increase in the level of testing and materials surveillance activities.

Manufactured materials used in the construction of sewer systems, such as concrete, vitrified clay, and ductile iron pipe, as well as iron castings, are inspected at their place of manufacture.

Manufacturing plants located at a distance are required to submit certificates of compliance or independent testing laboratory reports for approval.

Highway construction materials such as soils, base courses, asphalt, and Portland cement concrete are subjected to numerous laboratory and field tests to determine their acceptability. Full time asphalt plant inspection and control are now provided. Concrete batch plants are inspected periodically. Soil compaction control will be accomplished by the use of a gage utilizing a nuclear principle for its operation. Prerequisite training in the use of this gage has been completed. The accompanying Figure II indicates the increase in total testing activity over the past several years.

Laboratory administration has been reorganized to provide simple permanent records, promote efficient scheduling of activities, and to maintain appropriate professional contacts.

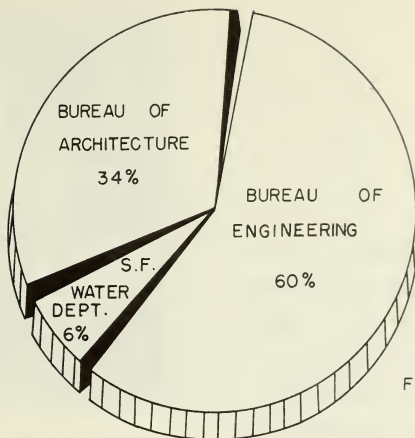


FIG. 1

MATERIALS TESTING LABORATORY
TESTING SERVICES

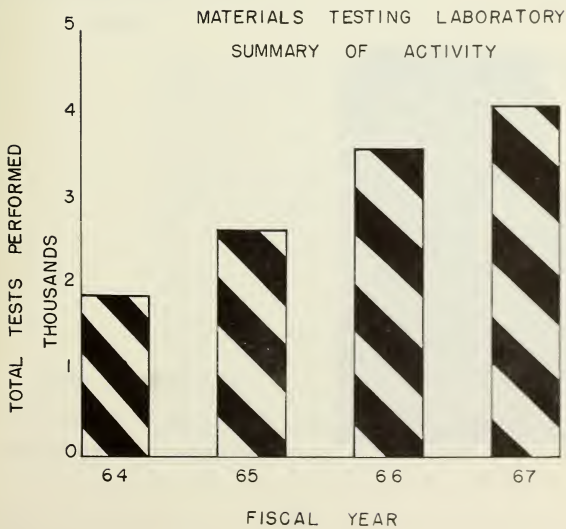


FIG. 2



PERFORMING FIELD DENSITY
TESTS IN THIS AGGREGATE
BASE REQUIRES CONSIDERABLE
EFFORT

QUALITY CONTROL IS
ACCOMPLISHED THROUGH
A THREE PHASE PROGRAM
OF FIELD TESTING,
PLANT INSPECTION
AND LABORATORY TESTING



PLANT INSPECTION IS
FACILITATED BY USE OF THE
MOBILE TESTING LABORATORY



LABORATORY TESTING OF REINFORCING STEEL IS DONE IN ACCORDANCE
WITH SPECIFICATIONS. RESULTS ARE CAREFULLY RECORDED FOR
REPORTING. NOTE SHEAR FAILURE OF TEST BAR.



INSPECTION

Major projects under way this year include construction of an effluent system from the Southeast Sewage Treatment Plant and relocation of sewer facilities in Market Street and Mission Street.

The continuing Federal requirement for pollution control of our inland waterways has prompted the City of San Francisco to install an effluent sewer from the Southeast Sewage Treatment Plant. This sewer, when completed, will transport the treated liquids from the treatment plant to a diffuser system projecting into the bay from the vicinity of the new Army Street Terminal. Construction of this diffuser system presented problems similar to those that will be encountered by the Bay Area Rapid Transit District when they construct the underwater section of their transit system. To construct the diffusers, the Contractor made use of a hydraulically-operated frame in which the pipe sections to be placed were held. The frame with pipe was then lowered into a prepared trench and the frame securely placed on the bay floor. With hydraulic attachments, the pipe was then placed to line and grade. When the pipe was in position, sand backfill was placed to hold the pipe, and the frame was released from the pipe and brought to the surface.

Major sewer relocations are being accomplished in Market Street and Mission Street in order to accommodate the subway system being constructed by the Bay Area Rapid Transit District. Due to the crowded conditions, this work has required close coordination between the Department of Public Works, the utility companies, the Municipal Railway, and the Bay Area Rapid Transit District.



ARMY STREET TERMINAL AREA
LOWERING 80 FOOT SECTION
OF CEMENT LINED STEEL PIPE



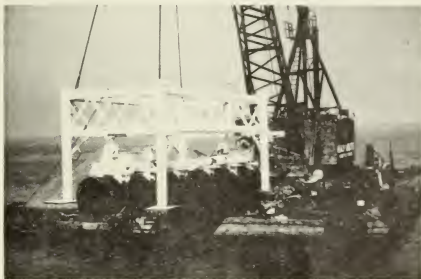
PLACEMENT OF 80 FOOT SECTIONS OF 54 INCH CEMENT LINED
STEEL PIPE (ABOVE) AND DUCTILE IRON PIPE (BELOW) IN
THE ARMY STREET TERMINAL PIER AREA





HYDRAULIC FRAME AND BARGE WITH LOAD
OF 54" DUCTILE IRON PIPE (ABOVE)

HYDRAULIC FRAME GRIPPING PIPE IN PREPARATION
TO LOWERING AND PLACEMENT ON BAY FLOOR (BELOW)



INTERDEPARTMENTAL COMMITTEE ON WATER POLLUTION CONTROL

The most significant accomplishment of the Committee during the fiscal year was its efforts in developing an over-all long-range policy relative to the City's commitment for the abatement of pollution caused by the effluent discharge of three sewage treatment plants and from wet weather overflow from the City's combined sewer system. Subsequent to the presentation made to the Board of Supervisors' Health Committee on June 28, 1966, the Board on December 12, 1966 passed Resolution No. 840-66, which included the following provision:

"... Further Resolved, that the Board of Supervisors do hereby adopt a positive policy to develop a means of controlling and treating discharges from the combined sewer systems. ..."

The Resolution directs the Director of Public Works to seek solutions to the technical problems and authorizes filing for Federal or State Grant-In-Aid to help finance this objective. Also, the Resolution urges the Regional Board to allow a reasonable time for the implementation of the program.

By the passage of this Resolution, the Board of Supervisors approved the Department of Public Works' contention that separating the sewer system is not the feasible solution because of its expense and the fact that storm water only has an adverse pollution effect on receiving waters.

The Resolution commits the City to develop a means of controlling and treating the combined sewage overflow. At present, the estimated cost to accomplish this is \$180 million using conventional techniques. Through research and demonstration grants by this City and other cities having combined sewer systems, it is expected that new techniques will be developed to substantially reduce the cost.

ICOWPC also served a useful purpose in resolving interdepartmental problems at Sharp Park Golf Course and Fleishhacker Pool. Sharp Park Golf Course, under the jurisdiction of the Recreation and Park Department, uses treated secondary effluent from County Jail No. 2 as its irrigation water. The Department of Public Health brought to the attention of the Sheriff's Department and ICOWPC that the quality of the effluent was below the minimum State safety standards. The Department of Public Works furnished technical and operational assistance for an interim solution and transmitted the report to the Sheriff's Department for a permanent solution. Similarly, ICOWPC initiated action to resolve a cross-connection problem at Fleischhacker Pool brought to its attention by the Department of Public Health. The Department of Public Works transmitted a report to the Recreation and Park Department detailing interim measures and a final solution to the problem of Fleischhacker's drainage and pool filling operation.

The Committee operated on an approved budget of \$250 for the 1966-67 fiscal year.

SEWER SECTION

RAPID TRANSIT AND SAN FRANCISCO SEWERS

Proposed BARTD facilities and construction within San Francisco necessitated relocation of main sewers and modification of existing sewer systems. The largest and most critical sewer relocated was the North Point Main. This work, because of its importance, was contracted for by the City prior to BARTD construction. All subsequent sewer modifications and relocations would be done under BARTD contracts.

During the fiscal year final design of sewer relocations for the Montgomery, Powell, Civic Center, Sixteenth Street, and Twenty-Fourth Street stations were completed and submitted to BARTD. All sewer design work was done by the Sewers Design Section for incorporation into BARTD contracts. Major main sewers modified were the Fifth Street and Seventh Street sewers. Main sewer and building side sewer investigations were made with the cooperation and assistance of the Bureau of Sewer Repair crews.

The basic premise of design used in relocating existing main sewers was to adequately replace existing sewers with their equivalent. However, some oversize sewers were replaced with smaller sewers where the sewer system would not be adversely affected. VCP sewers jeopardized by construction or adjacent to property foundations were encased in concrete. Generally, the controlling design characteristics were sanitary flow velocity and storm water quantities. However, existing side sewer elevations restricted everything but minor changes of main sewer invert elevations.

Most design difficulties stemmed from the location and size of the BARTD stations. Invariably stations extended into or through street intersections, affecting sewers in both directions.

Main sewer had to be divided in literally half in order to serve properties and adjoining streets on both sides of the stations. In Market Street the extreme station widths left only narrow passages for sewer construction. At the station ends additional areas were reserved for tunnel shaft construction and possible further extensions of mezzanine levels.

Further complicating design, side sewer connections had to be made in the sidewalk area close to property, with traps, fresh air inlets, and assorted angle fittings. This problem was partly relieved by allowing the contractor to cut holes in VCP mains and set epoxy stubs in place.

Besides the hydraulic, geographic, and limited-space aspects, consideration was given to interests and requests of property owners. Every effort was made to accommodate adjacent properties. Sewer alignment and structure locations were determined in a manner to cause minimum inconvenience, and manhole openings were positioned away from doorways and entrances wherever possible. In order to design the sewer modification, extensive investigations of the existing sewer facilities were made.

Necessary design information was obtained from within the sewers and adjacent buildings. With the cooperation and assistance of the Bureau of Sewer Repair crews, design personnel entered existing 3' x 5' brick sewers and located and measured all incoming side sewers and culverts. Sections of sewer found in disrepair were noted for maintenance work.

Building plumbing systems were investigated, and number, type, and size of side sewers determined. In the Market Street sewer lines there were considerably more side sewers coming into the main than could be found leaving the buildings. This was probably due to the 1906 earthquake and subsequent reconstruction.

Besides investigating sewers in the vicinity of the BARTD stations, work was also done at major sewer crossings above proposed tunnels. Since varying degrees of settlement are expected to follow tunnel construction, inspection surveys were begun to determine the effect on existing sewers.



TYPICAL TRENCH WORK ALONG MARKET STREET
IN CONJUNCTION WITH BARTD CONSTRUCTION

POWELL STREET STATION

The most extensive and complex investigations and design were made to accommodate the Powell Street Station and adjacent property owners. In addition to the station, sewer relocations also had to circumvent the proposed plaza and mezzanine extension.

Properties on each side of the station requested access to the mezzanine, and this access was in conflict with the preliminary sewer relocation plans. Consequently, after BARTD negotiations with the owners, sewer relocation plans were redesigned. The preliminary plan was modified and enlarged to make a major system change, with the reversal of flow in one block. Also, because of traffic, safety, and structure support problems, the possibility of longitudinal main sewer construction in Powell Street was eliminated and sewer construction was shifted to Anna Lane, a small street just west of Powell Street.



BARTD CONSTRUCTION WORK AT MARKET - POWELL - EDDY STREETS

STANDARDS, UTILITIES AND ESTIMATES SECTION

ARMY STREET CIRCLE RECHANNELIZATION

UTILITY RELOCATION - PLANNING

The Army Street Circle Rechannalization is the City's answer to the monumental traffic problem at the intersection of Army Street, Potrero Avenue, and Bay Shore Boulevard. For many years the daily traffic volume at the Army Street Circle has exceeded the practical capacity of the Circle. During peak hours, traffic at the Circle moves as slowly as four to five miles per hour. To alleviate the traffic congestion at this location it is necessary to redesign the entire traffic circle.

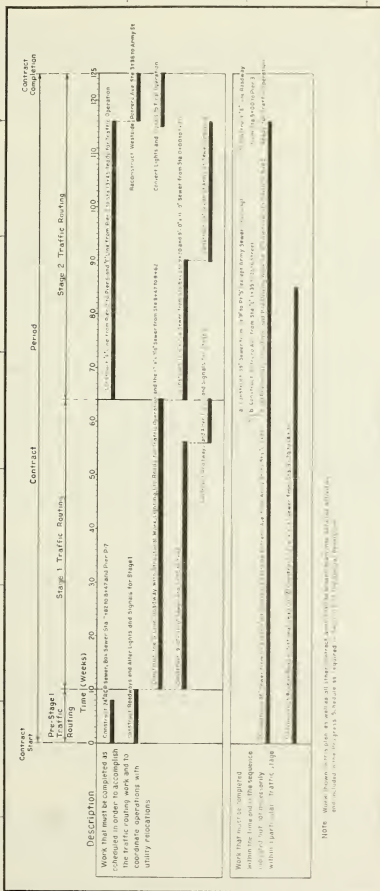
Basically, the proposal for Army Street Circle rechannalization consists of abandoning the use of a traffic circle as a means of routing traffic through this complex intersection and substituting a system of grade separations to handle all major traffic movements in the area. It provides a direct connection between Potrero Avenue and Bay Shore Boulevard for the north-south traffic flow, a continuous roadway along the existing Army Street alignment for the east-west traffic flow, and on- and off- ramps to carry the traffic to James Lick Freeway. Crossing at grade is completely eliminated within the limits of the Circle.

Preliminary plans for the proposal were prepared in the first part of 1965 and submitted to the State Division of Highways for approval in March, 1965. Because the preliminary plans did not meet the minimum geometric standards required by the State Division of Highways, many meetings were held with them over the next two years to work out the differences in the requirements of the two agencies. On February 23, 1967 the preliminary plans were approved by them.

The surface traffic problem finds a kindred problem existing below the surface. Here, we have some 17 utility lines that have to be shifted or replaced. Among these lines are a number that vitally affect large portions of the City: there is the 48-inch San Francisco Water Department main, the principal source of water for the downtown area; the 115 KV transmission line of Pacific Gas & Electric Company, which must be kept in continuous operation while being relocated; the main trunk and toll feeder cable of the Pacific Telephone and Telegraph Company serving downtown and requiring the splicing of 18,000 pairs of conductors; and the 36" semi-high-pressure gas main, a major feeder line of the Pacific Gas & Electric Company.

In order to accomplish this work, which will approach that of the rechannelization itself in dollar volume, an early start in planning was a must. The S.U.E. Section on September 8, 1964 sent out the preliminary drawing showing the limits of the work and requesting the location of all existing utilities. In December, 1964 CULCOP (Committee for Utility Liaison on Construction and Other Projects) first considered this project as part of its agenda. This Committee, which is chaired by the Section Engineer of the S.U.E. Section of the Bureau of Engineering, was formed by the Assistant City Engineer in 1963 to

coordinate the work of the various utilities on streets in which the Department of Public Works had contract work pending. This Committee has served as the vehicle for coordinating the planning of the utility relocations required by the Army Street Circle project.



MECHANICAL SECTION

NEW PIPE STANDARDS FOR THE AUXILIARY WATER SUPPLY SYSTEM FOR FIRE PROTECTION

During the 1906 earthquake all but one water supply pipeline leading into San Francisco were ruptured, leaving the City firefighters without water to prevent the conflagration which followed. Therefore, in 1907 City engineers researched the water supply systems of 250 cities throughout the world and consulted with many eminent engineers of that period.

An elaborate series of tests were conducted on leaded joints with different geometrical configurations. On the basis of these tests the joint shown on the top accompanying figure was selected.

It was finally decided to construct a high-pressure water supply system independent of the domestic water system for fire protection use only. To provide for this system a bond issue of \$5,200,000 was passed by the people of San Francisco in 1908. During subsequent years the system has been expanded and today it contains over 115 miles of specially-designed extra heavy cast iron pipe.

Recently, due to freeway and the Bay Area Rapid Transit System construction it has been necessary to relocate segments of the original system. The special cast iron pipe was found to be extremely expensive to manufacture and install due to present-day labor costs. It was therefore decided to design a pipe system to accommodate commercially available pipe capable of withstanding the high water pressure of the system. An investigation of available pipe materials, fittings, and types of joints was conducted. In addition, tests on commercial and modified pipe materials were performed at high pressures by pipe manufacturers and by the San Francisco Fire Department.

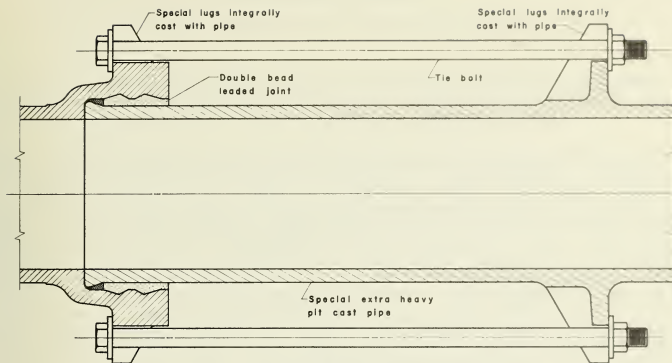
The commercial pipe selected was of ductile iron with a push-on type rubber gasketed joint. The ductile iron pipe material was chosen because of its strength, flexibility, and high corrosion resistance. The push-on type joint provides ease of installation and excellent capacity for sealing at high pressures.

In order to provide end restraint against longitudinal movement at the joints, special ductile iron collars were designed which could be slipped onto the pipe and held together with tie bolts. One collar is held by the pipe bell while the other is held by steel stops welded to the spigot end of the pipe.

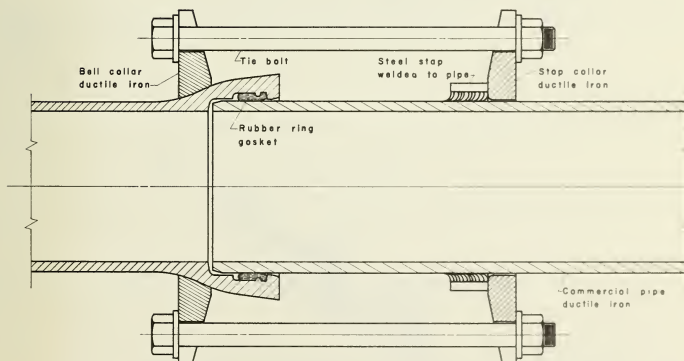
The end result is the joint shown at the bottom of the accompanying figure.

Specially designed ductile iron pipe fittings using a standard mechanical joint (bolted stuffing box seal) were utilized in conjunction with the ductile iron pipe.

Based on a recent contract, the cost of furnishing and installing pipe using the new standards was found to be approximately 50% of the cost of furnishing and installing pipe using the original pipe standards.



ORIGINAL EXTRA HEAVY CAST IRON PIPE



NEW MODIFIED COMMERCIAL DUCTILE IRON PIPE

ORIGINAL AND NEW PIPE STANDARDS FOR THE
FIRE DEPARTMENT AUXILIARY WATER SUPPLY SYSTEM

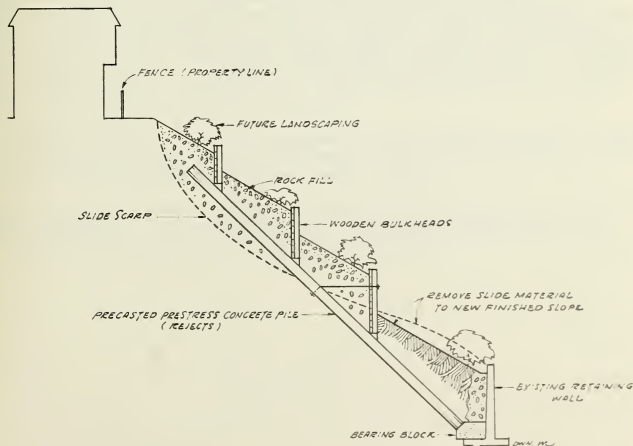
STRUCTURAL SECTION

UNUSUAL SOLUTION TO SLIDE STABILIZATION

A series of pressure-treated timber bulkheads mounted on precast prestressed concrete struts was used to stabilize the slide in the southern slope of Alemany Boulevard near Trumbull Street.

Approximately 80 feet of the south slope in the Alemany Boulevard right-of-way became unstable and slid into the pavement, blocking two lanes, during heavy rains in February, 1967. The upper scarp of the slide was dangerously close to the property line of adjacent homes. There was a 12-foot retaining wall at the foot of the slope, which showed no sign of movement, but materials could not be placed behind it to form the original 1:1 slope after the slide. To take advantage of this retaining wall, precast prestressed concrete struts were placed in shallow trenches dug in the slope perpendicular to and bearing on the base of the retaining wall. The struts were reject piles costing about \$2.60 per foot. The trenches were backfilled with rocks and served also as drainage feeders to the drainpipe behind the retaining wall. Pressure-treated Douglas fir posts were mounted on the struts to form three lines of six-foot high bulkheads. The bulkheads were backfilled with granular material capable of being stable at $1\frac{1}{2}$:1 slope.

This proved to be an economical and advantageous solution in many ways, providing easy installation, maintenance, and esthetic landscaping.



TYPICAL SECTION

ELECTRICAL SECTION

STREET LIGHTING

The improvement of the City's street lighting, which started in 1963, continued during the past year.

OVERHEAD DISTRICTS

All of the existing street lights in overhead districts have been converted to mercury-vapor lamps, with the exception of those scheduled for replacement with underground systems. A continuing service is provided by the Bureau of Engineering for the investigation of complaints or suggestions regarding street lighting in the overhead districts.

STREET LIGHTING BOND ISSUE

Work financed by the 1964 Street Lighting Bonds continued, supplemented wherever possible with funds derived from other sources. At the close of the fiscal year, a total of 18 contracts for 1443 street lights had been prepared.

During the year, five contracts for the installation of 282 new street lights were let.

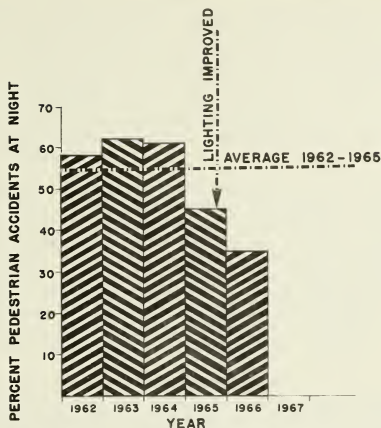
EFFECTS OF STREET LIGHTING

Although it is early to determine the full effects of the street lighting program, certain trends are apparent. Street crimes in the categories of purse snatching, assault, robbery, and car-stripping increased from 4310 in 1963 at the beginning of the street lighting program to 5769 in 1966. However, the ratio of night to day crimes decreased from over 2.5 to about 1.5. The trend is shown on Fig. 1, contrasted with street lighting progress.

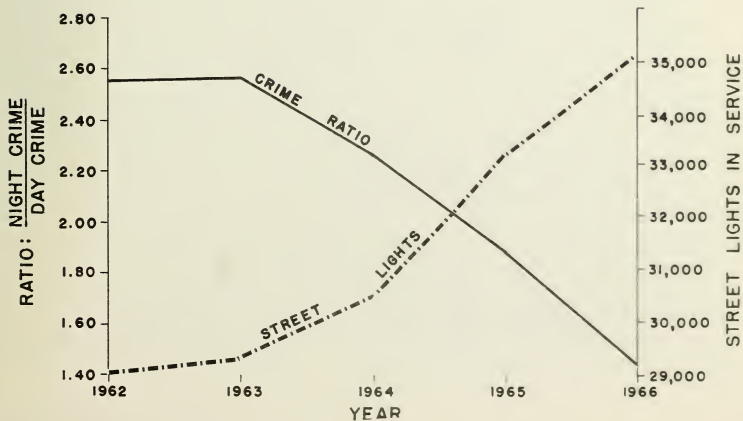
As the number of street lights increased from 29,000 in 1962 to over 35,000 in 1966, the lumen output increased from 140 million to 470 million due to the change to mercury vapor lamps.

New lighting was installed at 19 intersections to try to reduce pedestrian accidents. The reduction in nighttime pedestrian accidents at these intersections is shown in Figure 2.

PEDESTRIAN ACCIDENTS AT SELECTED LOCATIONS IN SAN FRANCISCO



STREET CRIME AND STREET LIGHTING IN SAN FRANCISCO



SANITARY AND SPECIAL PROJECTS SECTION

SOUTHEAST EFFLUENT SEWER DEEP WATER OUTFALL

As early as 1899 the City was advised to incorporate in the Master Plan a submerged deep water sewer outlet off Hunters Point for development of sewer facilities in the southeastern section of the City. Again in 1935 a board of consulting engineers recommended a deep water outlet as part of a plan to eliminate dry weather sewage discharge into Islais Creek. By 1951, with the advent of sewage treatment at the Southeast Sewage Treatment Plant, dry weather discharge of treated waste water replaced the raw sewage discharge into Islais Creek. However, the deep water outlet was still considered a future improvement for waste water disposal.

The impetus necessary to initiate the project occurred in 1963, when by Resolution No. 466 the Regional Water Pollution Control Board issued a cease and desist order against the City for violation of their requirements prescribed for the Islais Creek waters. This order and supplemental resolutions provided the motivating forces which led to the pursuit of a program encompassing improvement of the waste water quality, consideration of various alternate outfall designs, determination of optimum available dilutions by diffusion, and the possibility of obtaining a financial construction grant available from the Federal Government under Public Law 660.

Implementation of this project required action by the Board of Supervisors on an agreement with the San Francisco Port Authority for a right-of-way permit, a permit from the San Francisco Bay Conservation and Development Commission, a permit from the U.S. Army Engineers, and a Construction Grant from the Federal Government.

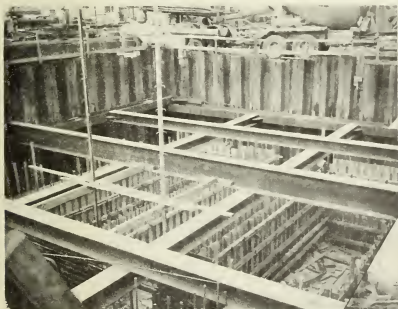
The design was to a large extent influenced by the San Francisco Port Authority's Army Street Terminal Development, which involved filling the submerged land north and south of the entrance to Islais Creek and dredging of the surrounding waterway for deep draft shipping. Specialists in the field of underwater construction, soil mechanics, waste water diffusion, and hydraulics were engaged for design consultation; three general contractors, two pipe manufacturers, and a commercial diver (for underwater inspection) were engaged for construction of the system. The combined efforts of these parties will result in construction of a system composed of a dual inverted underwater siphon crossing Islais Creek adjacent to the west side of the Third Street Bridge, a coated and lined welded steel pipeline connecting the siphon to the submerged diffuser system which extends into the bay easterly of the Army Street Terminal. This system is capable of gravitating a flow of 25 mgd at mean tide elevation and when pressurized, discharging a minimum of 70 mgd. The minimum dilutions of dry weather waste water with bay water as measured at the water surface, within the boundaries of the prescribed dilution zone, will amount to one part of waste water in sixty parts of bay water and a minimum of one in two hundred at the zone boundaries. Additional facilities permitting unique predilutions of the waste water prior to diffusion will be incorporated in the forthcoming booster pump station, which by push-button command will permit doubling the minimum dilutions noted above.

The three contracts comprising the conduit portion of the system are:

1. 3700-foot long onshore section of 54" diameter pipe to be completed in 1967 at an approximate contract cost of \$370,000.
2. 808-foot long offshore section terminating in 54" diameter to 16" diameter tapered diffuser section equipped with eighteen 10" risers and thirty-six 6" diameter outlets located 50 feet below mean lower low tidal elevation. to be completed in 1967 at an approximate contract cost of \$480,000.
3. 430 linear feet dual inverted siphon of 36" and 42" diameter lying 50 feet below mean lower tide at the ship channel. to be completed in early 1968 at an approximate contract cost of \$500,000.

Contracts for these projects together with the design of the Onshore Section and Booster Pumping Station were prepared by City engineering personnel. The City retained J. H. Pomeroy Inc. for preparation of plans and specifications covering the Islais Creek and Offshore contracts.

By transporting and diffusing an improved quality of waste water into a deep water location where active tidal conditions provide predominating transport of surface waters out of the bay. this project will eliminate the nuisances resulting from the past 85 or more years of dry weather sewage and waste water disposal into the waters of Islais Creek Channel.



SOUTHEAST BOOSTER
PUMP STATION
SHOWING FORM WORK



SOUTHEAST EFFLUENT
OUTFALL EXTENSION
TO PUMP STATION

FEDERAL GRANTS FOR WATER POLLUTION CONTROL

In addition to receiving a grant in the amount of \$759,000 to aid in the construction of the S.E.S.T.P. Effluent Outfall Extension Project, the following was accomplished with respect to obtaining Federal grant-in-aid for sewage pollution abatement projects under the Clean Water Act of 1966 during fiscal year 1966-67:

A. RESEARCH GRANT "FEASIBILITY OF TREATMENT OF OVERFLOWS FROM COMBINED SEWERS".

Under this \$99,820 grant, the City and County of San Francisco has engaged the services of Engineering Science, Inc. to investigate the physical characteristics of San Francisco's existing combined-sewer system, including some of the physical and biological characteristics of the receiving waters, and to develop and demonstrate the feasibility of specific control measures for a pilot segment of the City on the basis of which a comprehensive metropolitan area-wide correction program can be developed.

Based upon preliminary findings of this study, the Health Committee of the Board of Supervisors at their meeting of May 23, 1967 endorsed the filing of applications for:

- (1) Further Research Grant in the amount of \$290,655 representing 100% of the cash requirement.
- (2) Demonstration Facility Grant in the amount of \$900,000 representing 75% of the total project cost.

B. PUBLIC LAW 660 CONSTRUCTION GRANTS (Amounts indicated = 30% of Project Cost)

- (1) During fiscal year 1966-67, applications totaling \$420,000 were submitted for construction grants for five sewage treatment works projects. Of these five projects, three projects representing grants of \$225,000 were approved in the State Water Quality Control Board's "A" list and thus are reasonably assured of funding. The other two projects on the "B" list will be standby projects.
- (2) In addition, applications in the amount of \$27,300 and \$105,000 for Log Cabin Ranch Addition to Sewage Treatment Plant for Junior Facility and Bancroft-Griffith Sewers Contract No. 1 respectively were submitted as "retroactive construction" grants under the aforementioned Act. Although the Log Cabin Ranch Project is on the "A" list while the Bancroft-Griffith Contract No. 1 project is on the "B" list, both projects should under the provisions of the aforementioned Act be at the top of next year's list and funds will be reimbursed to these two projects when 1968-69 funds become available.

DIVISION OF SURVEYS AND MAPPING
SUBDIVISIONS AND STREET CHANGES

TENTATIVE SUBDIVISION MAPS EXAMINED AND APPROVED:

Portion of Blocks within Diamond Heights

FINAL SUBDIVISION MAPS EXAMINED, APPROVED, AND RECORDED:

Nibbi Court
Roemer Way
Mansell Heights
30 Miller Place

PARCEL MAPS EXAMINED AND APPROVED:

Portion of Block "J" Columbia Heights
Portion of Block 6298

PARCEL MAPS EXAMINED, APPROVED, AND RECORDED:

Block Q Railroad Homestead Association
Block 7528 and portion of Block 7523
Block 7529
Portion of Western Addition Block 571
Gold Mine Hill Homes No. 1
Portion of Sunset Block No. 1143
Portion of Block 2048A
Portions of Blocks 7531 and 7534
Portions of Block "D" Park Hill Homestead Association
Portion of Block 7544
Portion of Block 1480
Portion of Sunset Block No. 1039
Portion of Block 7531
Portion of Block 2034A

RECORD OF SURVEY MAPS EXAMINED AND RECORDED:

Portions of 100 Vara Block 374
50 Vara Block 72

STREET DEDICATION MAPS APPROVED AND RECORDED:

Opening of Tubbs Street - Indiana to Tennessee Streets
Widening of Duboce Avenue - Westerly of Otis Street
Widening of Geary Boulevard - Cleary Court to Gough Street
Widening of a portion of Emery Lane - Northerly of Vallejo Street
Extension of Santa Barbara Avenue - Northeasterly to Head Street
Widening of Mary Street - Mission Street to Natoma Street

STREET VACATIONS APPROVED:

San Jose Avenue - 25th Street to Army Street
Hamerton Avenue - Northerly of Bosworth Street
Fargo Place - Southwesterly of Boardman Place
Summer Street - Westerly of Montgomery Street
Streets within Produce Market
Air space above Minna Street - Fifth Street to Mary Street
Casey Drive - Southwesterly of Jamestown Avenue
Alemany Boulevard - Easterly of St. Charles Avenue
Streets within the Golden Gateway
Arguello Boulevard - Carl Street to Parnassus Avenue
Humboldt Street - Easterly of Illinois Street
Air space over Sonora Lane - North of Terra Vista Avenue

CHANGES IN OFFICIAL WIDTHS OF SIDEWALKS:

Funston Avenue - Quintara Street and Rivera Street
Burnett Avenue - Northerly of Dixie Alley
Halleck Street - Westerly of Sansome Street
Quint Street - Arthur Avenue and Bay Shore Boulevard
19th Avenue - Wawona Street and Sloat Boulevard
Page Street - Franklin and Gough Streets
Lincoln Way - Fifth and Eighth Avenues
19th Street - Easterly of Minnesota Street
Worcester Avenue - Alemany Boulevard and Ramsell Street

CHANGES IN OFFICIAL GRADES:

Hawes Street - Evans and Galvez Avenues
14th Avenue - Quintara and Rivera Streets
Burnett Avenue - North of Dixie Alley
Quint Street - Oakdale Avenue to Jerrold Avenue
Funston - Quintara Street to Rivera Street

STREET NAME CHANGES:

Gardner Street to Robert Kirk Lane
Ingalls Street to Middlepoint Road
Vulcan Street to Vulcan Stairway

DIVISION OF SURVEYS AND MAPPING

FIELD SURVEYS

NUMBER OF SURVEYS

A total of 231 field surveys undertaken and completed by the six survey parties of the Division's Field Engineering Section comprised the following:

Public Improvement Surveys for:	
Public Assessments and private contracts	23
Contracts financed by City	199
Site and Lot Location and Topographic Surveys for:	
Bureau of Architecture	9
Recreation and Park Department	-
S. F. Port Authority	-
City Attorney	-

Survey fees received by the City for Public Assessment and Private Contracts totaled \$15,035.

EXTENT OF SURVEYS

The aggregate length of field surveys completed totaled 80.93 miles, in addition to which 29.40 acres of topographic surveys were completed. The aggregate length, which was the sum of the various construction project lengths, except when not applicable, comprised the following:

Cross sections for street, structure, sewer and drainage design	5.49 Miles
Line and grade for construction of:	
Sewer and drainage system	4.93 Miles
Street grading	1.82 Miles
Pavement and curbs	2.18 Miles
Line, grade and cross sections for reconstruction of existing pavements and curbs	3.28 Miles
Subsidence areas	6.89 Miles
Slide Areas	1.56 Miles
Block, site, and lot:	
Surveys (boundary lengths)	2.02 Miles
Resurveys (fronting lengths)	-
Reference marks (frontage lengths)	3.32 Miles
Monument lines checked	42.84 Miles
Grade studies	-
Miscellaneous surveys (not included above)	3.54 Miles
Post construction examination of:	
Street grading	0.95 Miles
Sewer and drainage systems	1.03 Miles
Pavement and curbs	1.08 Miles

DIVISION OF SURVEYS AND MAPPING

MONUMENTS

In addition to the aforementioned checking of existing monument lines, 179 survey monuments were set or reset and referenced and 21 monuments examined for repair and if necessary repaired.

PRECISE LEVEL SURVEYS

Precise level bench marks established and elevations redetermined on existing bench marks totaled 718 and required the running of approximately 77.2 miles of precise levels in addition to the aforementioned survey mileage.

SURVEY PLATS PREPARED

S. F. Hospital - Medical Care Center Topographic Survey	"	"	"	"
John McLaren Park Parking Area	"	"	"	"
Golden Gate Park Conservatory	"	"	"	"
S.F. Fire Dept. Engine House No. 43 Boundary and Topographic Survey	"	"	"	"
Bayview Branch Library	"	"	"	"
Grattan School	"	"	"	"
Cabrillo School	"	"	"	"
Louise M. Lombard Elementary School	"	"	"	"
S. F. Hospital	"	"	"	"
Board of Education Shop Building Site	"	"	"	"

OTHER MISCELLANEOUS STUDIES

More than 70 miscellaneous drawings were prepared in connection with property acquisitions and dispositions, street openings, widenings, and vacations, and easement acquisitions and abandonments.

More than 16 reports regarding City interest in actions to quiet title were made to the City Attorney's Office. One hundred descriptions for deeds to, and from the City involving the Department of Public Works were checked.

Five appeals from decisions of the City Planning Commission were checked to determine whether the signatures thereon represented at least 20% of the property owners within a radius of 300 feet of the property involved, so as to qualify the appeals for consideration by the Board of Supervisors.

SUPERVISORY PERSONNEL
AS OF JUNE 30, 1967

Robert C. Levy, City Engineer
Ross T. Shoaf, Assistant City Engineer

<u>Division and Section</u>	<u>Person in Charge</u>
STREETS AND HIGHWAYS	W. J. Scruggs, Senior Engineer
Street Improvement Section	H. G. Louie, Engineer
Highway Section	L. T. Tom, Engineer
Street Reconstruction Section	L. T. Tom, Engineer
DESIGN	G. Galli, Principal Engineer
Structural Section	G. T. Jeong, Senior Engineer
Sewer Section	B. S. Martin, Senior Engineer
Sanitary and Special Projects Section	A. O. Friedland, Senior Engineer
Mechanical Section	W. F. Eisenberg, Senior Engineer
Electrical Section	A. E. Tanner, Senior Engineer
Contract Preparation Section	C. T. Beggs, Engineer
Standards, Utilities, and Estimates Section	J. J. Walsh, Jr., Engineer
Administrative Section	E. J. Sierra, Admin. Engineer
RECREATION AND PARK ENGINEERING	D. Martin, Senior Engineer
Office Engineering	W. Person, Engineer
Field Engineering	C. J. Lynch, Survey Party Chief
SURVEYS AND MAPPING	S. C. Gerughty, Senior Engineer
Administrative and Records Section	A. F. Hollett, Associate Engineer
Office Engineering Section	G. Q. Woo, Engineer
Field Surveys Section	W. E. Bryan, Chief Surveyor
CONSTRUCTION	W. C. Ewing, Senior Engineer
Inspection Section	T. J. Ford, Engineer
Testing Section	W. E. Pearson, Assoc. Materials Engineer
TRAFFIC ENGINEERING	W. Marconi, Senior Traffic Engineer
Legislative Section	C. M. Lang, Associate Engineer
Design Section	R. Evans, Assistant Engineer
Planning Section	N. Bray, Engineer
Operations Section	G. Hansen, Assistant Engineer
CONTRACT ADMINISTRATION	F. Giusto, Admin. Engineer
LIAISON ENGINEER	H. H. Beneke, Associate Engineer
OFFICE MANAGEMENT	F. R. Nichols, Head Clerk

PERSONNEL AT BEGINNING AND END OF FISCAL YEAR

<u>Division</u>	<u>July 1, 1966</u>	<u>June 30, 1967</u>	<u>Change</u>
Administration	8	7	-1
Streets and Highways	40	40	
Recreation and Park Engineering	16	16	
Design	102	119	+17
Surveys and Mapping	37	41	+4
Construction	31	39	+8
Traffic Engineering	26	27	+1
Office Management	<u>14</u>	<u>14</u>	
TOTAL	274	293	+29
Employees in professional classifications		118	
Employees in sub-professional	"	141	
Employees in clerical	"	34	

PAYROLL

The following tabulation shows the number of employees and total payroll charged to General, Project, and Road Funds:

<u>Source of Payroll Funds</u>	<u>Employees 1966-67</u>	<u>Payroll 1967-68</u>
General Fund - Budget Payroll	72	\$848,608.70
Project Funds (Gas Tax, Bond, General, etc.)	194	1,812,954.16
Road Fund - Traffic Engineering	27	258,779.99

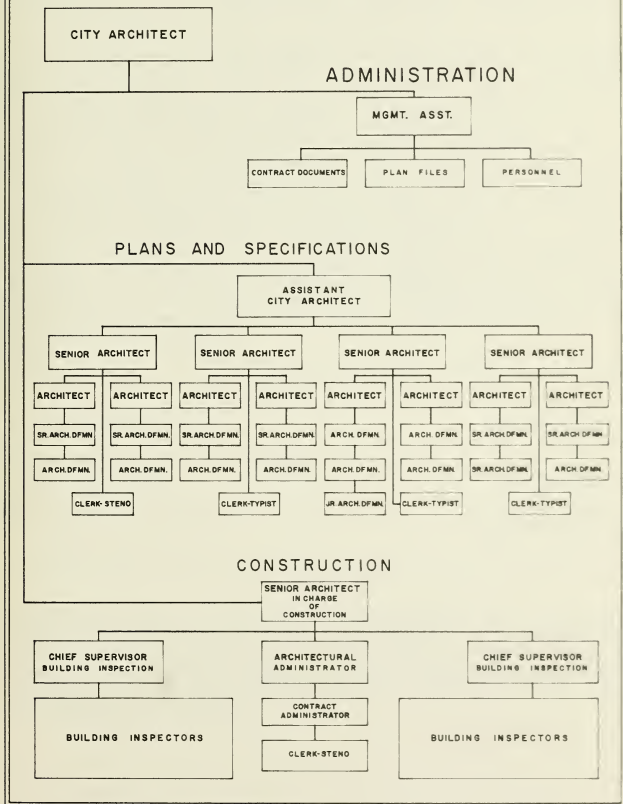
RETIREMENTS

During the past year the following employees were retired, and recognition is given for their faithful service to the organization:

Babette Goldschmidt	11-1-66	Clerk Stenographer	24 years
John H. McLean	1-1-67	Assoc. Civil Engineer	25 years
Arthur J. Hobson	3-1-67	Civil Draftsman	12 years

BUREAU OF ARCHITECTURE DEPARTMENT OF PUBLIC WORKS ORGANIZATION CHART

JULY 1 1967



BUREAU OF ARCHITECTURE

Charles W. Griffith, City Architect

The Bureau of Architecture has the responsibility for design and construction of new City buildings, and the modernization, remodeling, and such maintenance projects on existing City buildings as may require plans and specifications, or which exceed \$5,000 in cost.

The activities of the Bureau are divided generally into two separate functions: (1) the preparation of drawings, specifications, and estimates of costs; and (2) the supervision of construction.

Once the need for a building project is established, the Bureau assists the requesting Department in the preparation of a basic program and the acquisition of a building site. The program consists of general information relative to the activities and services to be performed in the building, the number and type of employees who will be housed in the building, the number and type of public to be served, and related data. The Bureau then prepares preliminary drawings, specifications, and estimates of cost, and when funds are available, prepares, or supervises the preparation of, the final drawings, specifications, and estimates. The bid forms are then prepared, and bids are requested by advertisement in the official newspaper. After bids are received and analyzed, recommendations are prepared for award of contract, and the construction contract is awarded and certified. Bureau personnel inspect the construction as it progresses, certify progress payments each month, and, upon completion of the job, in conformance with the contract, the final payment.

The amount of work in the Bureau as of July 1, 1966 was as follows:

1. Bond Issue Work - Plan and Specification Stage	\$55,061,612
2. Budget Work - Plan and Specification Stage	2,778,000
3. Work Under Construction	<u>14,875,000</u>
Total Work Load	\$72,714,612

ORGANIZATION

The Organization Chart indicates in brief manner the breakdown of divisions which have been found to be efficient in processing the Bureau's work. The organization of the Bureau is broken down into three separate divisions: Administration, Plans and Specifications, and Construction. The responsibilities of these divisions are further defined as follows:

ADMINISTRATION DIVISION

Section I Personnel

This section is responsible for personnel matters, all incoming and outgoing correspondence, answering various questions of architects, contractors, and public, and for staffing the Bureau's main counter.

Section II Plan Files

This section is responsible for requisitions and procurement of blueprints, assembly of blueprints, specifications, and bid forms, the filing of tracings, blueprints and specifications, and related work.

Section III Contract Documents

This section is responsible for the assembly, checking, and issuance of the contract documents to contractors who prepare bids for the various jobs.

PLANS AND SPECIFICATIONS DIVISION

The responsibility for processing the various jobs from initial inception to completion of the final drawings, specifications and estimates is divided into four sections. Each of these sections is headed by a Senior Architect who not only maintains formal and informal relationships with the client agency but also supervises the personnel assigned to him for the preparation of the drawings and specifications.

CONSTRUCTION DIVISION

This Division supervises and inspects all work under construction. The responsibilities of the Construction Division include progress and validity of the contract work, contract payments, and certification of completion of the contract. The number of jobs under construction is 79, in the total amount of \$14,875,000.

The Construction Division is headed by a Senior Architect, and there are two chief building inspectors supervising the building inspectors who are assigned directly to the construction jobs.

BOND ISSUES

Funds for the greatest part of the Bureau's design and construction program are provided by bond issues. The bond issues which are being processed currently are as follows:

I 1959 Palace of Fine Arts Bond Issue	\$1,800,000
---------------------------------------	-------------



PALACE OF FINE ARTS
MAIN ENTRANCE
ROTUNDA

PALACE OF FINE ARTS
SOUTH COLONADE



This bond issue will provide four completely new schools, major additions to two new schools, two new buildings for City College, replacement of four elementary schools, replacement of various temporary classrooms with permanent classrooms, and miscellaneous rehabilitation and modernization, in addition to furniture and equipment and miscellaneous costs. The work has progressed favorably, and as of June 30, 1967 the status was as follows:

1. Work Completed Sixteen Projects	9%	\$2,702,264.75
2. Work Under Construction Eleven Projects	10%	3,062,426.00
3. Final Drawing Stage Eight Projects	12%	3,736,807.00
4. Preliminary Stage Twelve Projects	45%	14,415,805.00
5. Miscellaneous Costs, Plans and Specifications, And Unallocated	24%	7,547,197.25

Photographs of designs and work under construction follow.



POTRERO HILL JUNIOR HIGH SCHOOL

The total cost of this rehabilitation project is \$7,734,440 and the source of the funds is the bond issue, a \$2,000,000 gift by the State, a matching \$2,000,000 gift by Walter Johnson, public subscription, and budget appropriations.

The work is almost completed, as shown by the accompanying photographs, and will be entirely completed on schedule in August 1967.



VISITACION VALLEY JUNIOR HIGH SCHOOL



DIAMOND HEIGHTS ELEMENTARY SCHOOL

The portion of this bond issue work which was appropriated has progressed favorably and on June 30, 1967, the status was:

1. Completed	27.5%	\$1,341,000
Headquarters Building		
Firehouse Engine Co. No. 28		
2. Under Construction	6.5%	310,000
Firehouse Engine Co. No. 7		
3. Final Drawing Stage	9.5%	477,500
Engine Co. No. 17 and		
Truck Co. No. 1		
4. Preliminary Stage	17.5%	860,500
Firehouse Engine Co. No. 3		310,000
Firehouse Engine Co. No. 8		310,000
Firehouse Engine Co. No. 16		240,500
5. Unallocated	39%	1,901,000

Pictures of the two completed projects and the firehouse under construction follow.



SAN FRANCISCO FIRE DEPARTMENT HEADQUARTERS

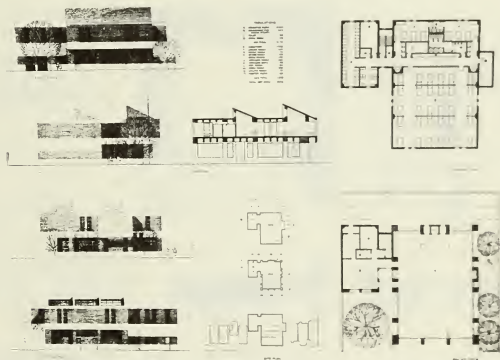


FIREHOUSE FOR ENGINE COMPANY NO. 28
1814 STOCKTON STREET

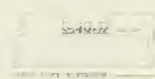
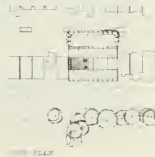
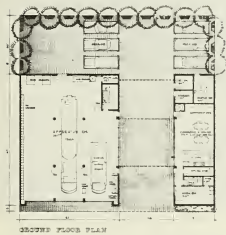
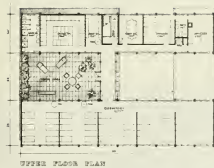


FIREHOUSE FOR ENGINE COMPANY NO. 7
DIGBY AND ADDISON STREETS

The Firehouse Competition, which will determine the general character of the design of new firehouses of this bond issue, was completed in May 1967. There were 130 designs entered and four winners were selected, each of whom received \$2,000. There were also two honorable mentions. Photographs of the selected designs follow.



WINNING DESIGN FIREHOUSE COMPETITION * ROBERT WAYNE HAWLEY



HONORABLE MENTION FIREHOUSE COMPETITION * OWEN L. JONES

IV 1964 Bond Issue Improvements,
Log Cabin Ranch School

\$1,300.00

Construction of this new boys' camp, which is located about one half mile from the existing Log Cabin Ranch School, is now entering its final stages, and should be completed, ahead of schedule, on or before August 1, 1967.

The new school, now known as the Hidden Valley School for Boys, situated in a beautiful isolated wooded site, will accommodate 100 boys 10 to 15 years of age, and consists of four buildings arranged around a quadrangle: the administration building, the classroom building, the gymnasium, and the dormitory. The buildings were designed by the Bureau of Architecture, and the water system, sewage treatment plant, and roads were designed by the Bureau of Engineering.

Pictures of the Hidden Valley School under construction follow.



HIDDEN VALLEY SCHOOL
FOR BOYS

UNDER CONSTRUCTION
FEBRUARY 1967

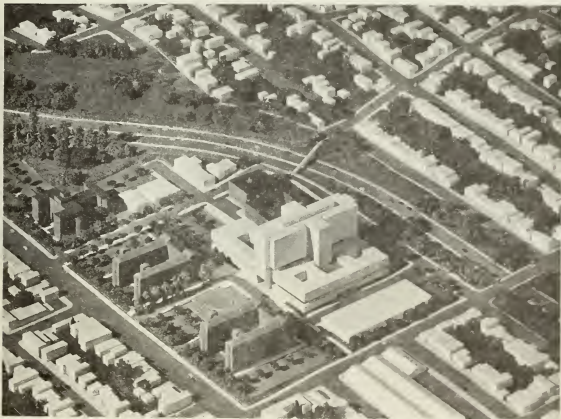


Since approval of this bond issue in November 1965, the design work has progressed satisfactorily. The Master Site Plan, Phase One of the design work, was completed in February and approved April 5, 1967. Schematic drawings, Phase Two of the design work, are now under preparation.

Two photographs of the Master Site Plan follow. The photograph entitled "First Stage" portrays the development which will be provided with the bond issue funds. Fundamental to the concept is the creation of a pleasant open campus-like environment. The older buildings no longer necessary for the operation of the Medical Center are removed and replaced with a central plaza, pool, gardens, courts and walks, with parking areas for public, staff and employees.

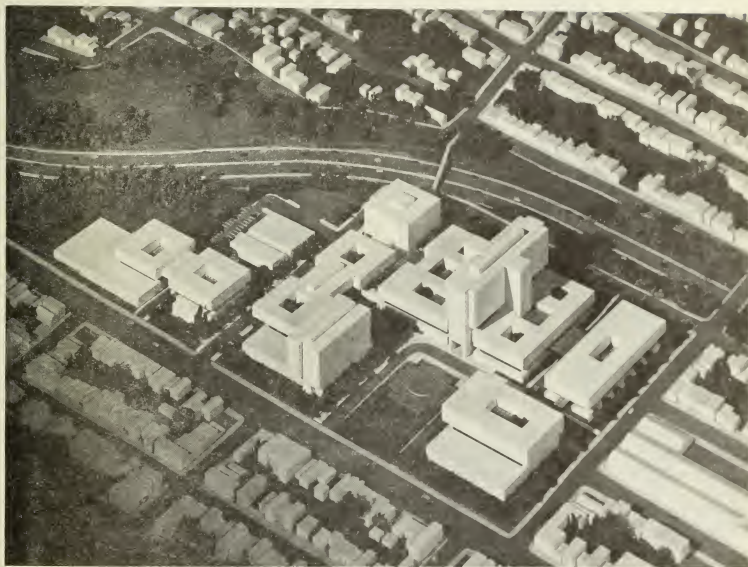
The "Ultimate Stage" as shown is clearly long-range, hypothetical, and well beyond the limitations of the bond issue. It can be expected that the construction of the new Medical Center will generate additional medical and para-medical development adjacent to the site as well as within its boundaries, in sufficient quantities to substantially change the neighborhood fabric.

The present site and the contiguous area to the south create an island bounded by the freeway to the east and Potrero Avenue to the west. It has appeared logical to the architects to project this area as a potential medical community and they have therefore strongly recommended that this type of development be encouraged through long-range zoning and planning controls.



SAN FRANCISCO MEDICAL CENTER
FIRST STAGE

SAN FRANCISCO MEDICAL CENTER



ULTIMATE STAGE

GATEWAY TO CHINATOWN

This project, which had been inadequately funded, finally started to move this year. Mayor Shelley agreed to approve \$35,000 in addition to the \$35,000 previously provided in 1960, and the Chinatown Improvement Committee sponsored a competition for the design of the Gateway. Photographs of the winning design follow. Every effort is being made to expedite the preparation of the final drawings and specifications so that the Gateway can be completed this Fall.



PROPOSED BOND ISSUES

Various bond issue proposals were under consideration, and preliminary data had been assembled on the following future bond issues:

1. New Civic Courts Building \$24,407,000
Renovate City Hall as
Administrative Building
Renovate 450 McAllister Street
and 101 Grove Street

EBS Associates completed a study for the Civic Center Technical Coordinating Committee in June 1967 which recommended that the above program be carried out as expeditiously as possible. While it will require further study by the Bureau of Architecture prior to going on the ballot, it is a start in the right direction. No definite site was chosen for the new Courts Building.

2. New Public Library \$12,000,000

The present central library is not properly designed to serve as a modern library, and a completely new building is needed.

3. Recreation and Park Bond Issue \$20,000,000

This bond issue was defeated in 1964. It was badly needed then in order to modernize and update recreation facilities, and the need has grown more acute over the succeeding years. It will be again presented to the voters, probably within the next year.

4. Other Bond Issues Under Consideration are:

- a. Palace of Legion of Honor
- b. Convention Facilities
- c. Sports Center
- d. Further Development of deYoung Museum
- e. Youth Guidance Center
- f. Social Services
- g. Musical Arts Building.

MISCELLANEOUS BUDGET WORK

In addition to Bond Issues, the Bureau also processes work which is financed by school district funds and budget appropriations, some with partial or full State and/or Federal subvention. Representative jobs which were under construction at the end of the fiscal year are as follows:

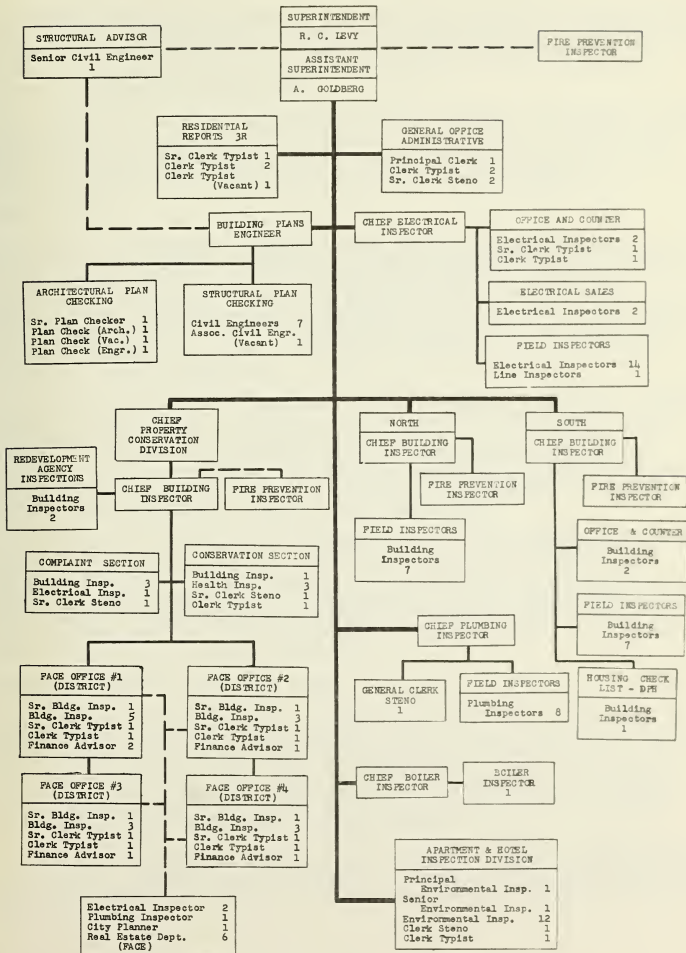
1. Treasure Island School, with 100% Federal subvention for construction
2. Health Center No. 2, with Federal and State subvention
3. Health Center No. 3, with Federal and State subvention
4. Health Center No. 5, with Federal and State subvention
5. Excelsior Branch Library.

In addition to the above work, a great amount of miscellaneous remodeling modernization work on various City buildings was under construction and completed during this past fiscal year.



RICHMOND - SUNSET
DISTRICT HEALTH CENTER NO. 5
TWENTY - FOURTH AVENUE
BETWEEN IRVING AND JUDAH STREETS

CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS
ORGANIZATION CHART
BUREAU OF BUILDING INSPECTION
JUNE 30, 1967



BUREAU OF BUILDING INSPECTION

R. C. Levy, Superintendent

The Bureau of Building Inspection during this last fiscal year underwent certain organizational changes as a result of the consolidation efforts of the Inspection Services instituted by the Chamber of Commerce aiming to speed up permit processing and eliminate duplication of inspection operations.

Again this year only the highlights of the various activities of the Bureau will be covered, and for detailed accounts of previous activities and the organization of the Bureau one should refer to the Table of Organization Chart and to previous Annual Reports.

CONSOLIDATION

The Chamber of Commerce, together with certain industry groups, undertook during 1966 to improve inspection operations, particularly the elimination of overlap of inspection services and also speeding up of permits. The overlap consisted of this Bureau, Bureau of Fire Prevention and Investigation of the Fire Department, and the Department of Public Health, all involved in inspection of residential buildings, and, to varying degrees, similar overlaps existed in other occupancies.

In November 1966 Charter Amendment C on the ballot was passed, which spelled out the area of jurisdiction of the Fire Department, limiting same to Title 19 Occupancies as designated by the State Fire Marshal's Code and with the addition of hazardous occupancies. This eliminated, therefore, the duplication of inspection and plan checking for commercial office buildings and residential occupancies between this Bureau and the Fire Department.

Upon passage of this charter amendment there were transferred to the Bureau of Building Inspection four fire inspectors to assist as advisors from the Fire Department on fire matters as well as to assist in code preparation. This transfer to the Bureau was effected in February 1967, with one inspector assigned to the Superintendent's office, one to the Urban Renewal operation, and two to work with the district building inspectors.

STATE AND FEDERAL CODE ACTIVITIES

This last year witnessed the increased pressures for preemption of the building code field simultaneously at the State level and at the Federal level. San Francisco's historical position favoring home rule was the basis of this Bureau's participation in activities to counteract this tendency. Appearances at the Building Standards Commission hearings and Federal meetings to present the arguments for home rule were undertaken by the Bureau.

In addition, various interested organizations in the building industry inquired further into this matter in order to develop their own positions, and this involved meetings with industry groups on this critical subject.

This is a very serious erosion of the basic home rule philosophy, and appears to be backed by certain minority factions in the building industry who feel that through the intervention of State or Federal governments they can get their materials used to a greater extent than going through the usual Code processes. A major campaign is under way based upon the mythical "Building Code mess", which has been disproved by a number of authoritative investigations but is still a very catchy slogan.

As of the end of the fiscal year this has proven of considerable value to the Bureau and has resulted also in speed-up of permit processing.

The consolidation of Health Department inspectors who had been working on housing inspections was a move made by the Chief Administrative Officer to implement the intent of the Charter Amendment so that the total consolidation would be put into effect.

On July 1, 1967, twelve health inspectors with supervisory personnel and clerical staff will be transferred to the Bureau. An orientation program was undertaken in June so that at the time of transfer the integration of the personnel will be made with a minimum of confusion and delay in inspection services. The coming years will see still stronger attempts at a takeover made, which will require the concerted efforts of local government and the building industry to stop the empire building of the State and Federal Governments at the expense of the local public.

CODE REVISIONS

1. The first draft of the Electrical Code was nearing completion at the close of the fiscal year, and it is anticipated that in early 1968 the first draft will be completed and distributed to industry for review. This is a comprehensive new code, based on the National Electrical Code and the State Electrical Safety Orders.
2. In the Fall of 1966 the Building Code revision was started, with a first draft of the first segment of the Code expected to be prepared in July 1967. This Code revision will have several objectives:

Firstly, the Code will be changed completely to follow the Uniform Building Code format and to adopt Uniform Building Code occupancy designations;

Secondly, the Code revision will update the entire Code to the latest standards for steel, concrete, wood, etc.;

Thirdly, it is intended that this Code revision undertake to solve some of the basic Code problems that have plagued this Bureau, as well as other Code bodies, in such areas as mixed occupancies, office building floor layouts, school occupancies, and many others.

The tentative target dates for the Building Code review are as follows:

Transmittal of first segment of the Code	July 1967
Completion of the first draft	April 1968
Commencement of Chamber of Commerce/Industry Review	September 1968
Completion of Chamber of Commerce/Industry Review	September 1968
Transmittal to the Board of Supervisors	October 1968

It is hoped that upon passage of the Building Code it may almost immediately be instituted. Methods will be explored by which this can be accomplished.

The general philosophy of the Building Code changes undertaken are not to increase restrictiveness, but to open equal avenues of Code compliance by Code-accepted alternative construction and to eliminate those items that are no longer applicable or which have been replaced by later reference documents or procedures. Finally, it is to evaluate the restrictiveness of certain portions of the Code in the light of State and Uniform Building Code requirements and the needs of San Francisco.

3. Coincident with the presentation of the Building Code to the Board of Supervisors there will be prepared also a revised Housing Code since the new construction features of the Housing Code as solely a retroactive document. In addition, it is proposed to revise the administrative portions of the Housing Code to reflect the changes due to consolidation of the Fire Department personnel and Health Inspection into the Bureau with concurrent transfers of duties.

PROPERTY CONSERVATION DIVISION

Federally Assisted Code Enforcement (FACE) is under way.

A contract with the Federal Government was executed November 30, 1966 to receive a 2.6 million dollar grant to expand the Conservation Program. Sixteen new inspectors were hired and given an 80-hour training course. Nine new clerical personnel were also hired and trained. The Real Estate Department has hired six new financial advisors to perform the Rehabilitation Loan and Grant Processing Service under work order to this department.

The City Planning Department has provided a Senior City Planner under work order to develop a continuing Neighborhood Improvement Program in the four FACE areas. The Redevelopment Agency will provide relocation service to families, individuals, and businesses who may be displaced by Code enforcement. One family has been successfully relocated and had moving costs paid for out of a Federal grant.

Field offices were rented in each of the four FACE areas, Arguello Park, Buena Vista, Glen Park, and Great Highway, to provide better service to property owners and contractors. Building permits are

issued out of these offices. The property owner receives the following services if he so desires: drafting and design assistance and specification preparation, obtaining bids and awarding contracts, assistance in applying for federal loans and grants as well as private financing.

Meetings have been held in two of the four areas to report FACE progress since the program started, with over 100 in attendance at each.

Since March 1, 1967 fifty percent of the 3,200 buildings have been inspected. As predicted, 20 percent had no violations; 5 percent have been brought into compliance.

Fifty-seven percent of the 162 buildings brought into compliance had costs under \$500, 21 percent had costs over \$1,500, 22 percent between \$500 and \$1,500. The average cost per dwelling unit was \$55; 10 percent of the dwelling units had a cost over \$500 each.

Twenty-seven loans and fifteen grants to owners of residential property were approved, amounting to \$85,940. The loans ranged from \$300 to \$6,700, and averaged \$2,100 each; grants ranged from \$438 to \$1,500, and averaged \$1,100 each.

Design assistance has been provided property owners by the Community Design Center, a joint U.C.-A.I.A. project.

A portable FACE information exhibit is being prepared for use at neighborhood fairs and civic conferences.

Visitation Valley and Pacific Heights Conservation Areas not included in the FACE program are ready for de-designation, because 90 percent of the buildings are now in compliance.

West Nob Hill Conservation Area may be de-designated in another year.

Three inspectors, including a temporary employee, are following up on the 450 cases remaining in non-compliance in the unassisted conservation areas.

PROGRAM PLANNING

The Chief, Division of Property Conservation, has worked closely with the IACUR subcommittee reviewing the CRP recommendations in 16 areas of the City. The Division designation was changed from Urban Renewal Division to more properly reflect the scope of its operations.

New conservation areas will be recommended for designation in early 1968 to provide for continuity of FACE operations.

A continuing analysis of program effectiveness and trends will be undertaken through the use of Electronic Data Processing for FACE reporting.

REDEVELOPMENT AGENCY WORK

Building Inspectors are assigned from the Property Conservation Division:

1. To make inspections in the survey and planning stage of the Hunters Point and Butchertown Redevelopment Projects.
2. To prepare reports and assist property owners to bring their buildings into compliance with City Codes and project standards in the Western Addition A-2 Project and Yerba Buena Center Redevelopment Projects now in execution.
3. These inspectors handle the individual case up to issuance of a building permit, after which the district Building Inspector handles the job until completed. The procedure will be reviewed from time to time to evaluate its effectiveness.

RELOCATION HOUSING INSPECTION

Two Environmental Health Inspectors from the Property Conservation Division are assigned to the Central Family Relocation Service located in the Redevelopment Agency to make inspections of referred housing to determine whether it is decent, safe, and sanitary prior to relocating families and individuals displaced by Code enforcement or other government action.

All work for the Redevelopment Agency is covered by funds under work orders to the Bureau.

THE COMPLAINT PROGRAM

During the past year, complaints were investigated throughout the City concerning residential, commercial, and industrial buildings. These complaints were received from the district building, fire, and health inspectors and the general public. One of the three complaint inspectors is a temporary employee hired to replace one of the permanent building inspectors assigned to the Redevelopment Agency on a temporary work order arrangement.

Inspection reports are also prepared at the request of the Health Department for their Condemnation Hearings for apartment houses and hotels and for owners of residential buildings requesting physical inspections and Report of Residential Building Record.

AMERICAN SOCIETY FOR TESTING AND MATERIALS AND UNDERWRITERS' LABORATORIES ACTIVITIES

As a member of the A.S.T.M. E-5 Committee and Underwriters' Laboratories Fire Council, the Bureau has been active in discussions relating to establishment of temperature criteria in the ASTM E-119 Fire Test Standards, as well as in the adoption of the criteria by Underwriters' Laboratories in evaluating tests conducted by them.

With the adoption of temperature criteria in the Uniform Building Code, together with the existing regulations in Los Angeles and San Francisco, and in the State Fire Marshal's office, there is a concerted realistic approach to the use of temperature criteria in California and, hopefully, this will have its effect on the national picture.

RESIDENTIAL CONSTRUCTION DROP

Residential construction dropped as a result of the "tight money" situation and the general overbuilding of residential occupancies throughout the country, and particularly in the State of California.

Coincident, however, with this drop was an increase in commercial and institutional buildings, which took care of the general activity in the electrical and building fields; however, plumbing and carpentry were hit primarily. As a result, the reduction in plumbing permits resulted in a loss in plumbing fees, and one position in the Plumbing Inspection Division was left unfulfilled until such time as residential work or other activities increased.

Financially the entire Bureau, aside from plumbing, was unaffected by this change in permit work.

BOARD OF PERMIT APPEALS

The Board of Permit Appeals continued in the same manner as in previous years in overruling over 90% of the matters presented to it relating to Building Code provisions. The Board's activities have increased as the precedents established by them are known to more and more individuals. At this time there are more than two times the number of appeals filed annually than in a comparable period six years ago, with no change in the number of permits handled by the Bureau nor with any increase in restrictiveness of the Code.

The Bureau substantiates each and every appeal case with a letter outlining the matter before the Board, the Code violation, and the effect of said Code violation on the general public.

The actions of this Board continue to erode the Bureau enforcement efforts, and there appears to be little that the Bureau can do to change the trend.

BANK OF AMERICA
WORLD HEADQUARTERS
PINE-CALIFORNIA
AND KEARNY STREETS



WELLS FARGO BANK
"JEWEL BOX"
MONTGOMERY AND
MARKET STREETS



PAYLESS MARKET
ALEMANY BOULEVARD
AND ST. CHARLES AVENUE



CHILDREN'S HOSPITAL ADDITION

MATSON NAVIGATION BUILDING
MISSION AND SPEAR STREETS



ST. MICHAEL'S CHURCH
BROAD STREET
NEAR
SAN JOSE AVENUE

FIRST SAVINGS BANK
SANSOME AND CALIFORNIA STREETS



P. T. & T. SERVICE CENTER
ADDITION
555 PINE STREET



BECHTEL BUILDING
50 BEALE STREET



FIREMAN'S FUND
ADDITION
CALIFORNIA STREET
AND PRESIDIO AVENUE

ST. MARY'S HOSPITAL
PARKING GARAGE
HAYES AND SCHRADER
STREETS



SAN FRANCISCO
NEWSPAPER PRINTING COMPANY
5TH AND MISSION STREETS

HIGH RISE CONSTRUCTION ACTIVITIES CONTINUE AT FAST PACE

The construction of high-rise office buildings has continued in this period and apparently will continue for several years. Under construction are the Bank of America's 52 stories, Mutual Benefit Life's 38 stories, and Universal Land Company's 42 stories, as well as such buildings as the Sequoias Apartments, the Pacific Gas and Electric Company's office building, and several others.

Announcement was made also that the Embarcadero Center, financed by the Rockefeller interests, would be constructed, at a cost of approximately \$150,000.00, consisting of a complex of office buildings and hotel adjacent to the Golden Gateway.



ALCOA BUILDING
BATTERY - CLAY - WASHINGTON STREETS

OFFICE REMODELING

In order to accommodate the additional personnel transferred from both the Fire Department and Health Department due to consolidation, as well as to improve the long-standing problem of layout of office space, the Bureau offices were extensively altered and changes between the first and second floors were effected. Primary among the changes was the location on the first floor of all permit application filing groups, such as Electrical and Plumbing, which were previously located on the second floor, together with the Residential Requirement Report Division, which is also public-oriented, and the removal of the plan checking and Superintendent's office to the second floor.

The completion of the alterations and move were effected in June 1967.



UNITED CALIFORNIA BANK ALTERATION
FOLSOM AND HAWTHORNE STREETS

ELECTRICAL INSPECTION DIVISION

	<u>1965-66</u>	<u>1966-67</u>
Permits issued, wiring and signs	14,953	12,947
Inspections made	43,478	39,069
Complaints investigated (found defective)	3,854	3,297
Installations in progress as of June 30, 1967	4,259	4,126
Installations completed	16,225	13,136
Pinball machine inspections	466	500
Juke box inspections	24	42
Inspections for nursing & boarding homes for ambulatory patients	182	149
Night club, public assembly, etc. inspections	260	185
Spray Booth inspections	30	35
Specials (garages, laundries, parking lots, etc.)	260	360

BUILDING INSPECTION DIVISION

<u>Type of Construction</u>	<u>1965-66 No. of Permits</u>	<u>1966-67 No. of Permits</u>	<u>1965-66 Estimated Cost</u>	<u>1966-67 Estimated Cost</u>
1A & 1B	41	28	92,455,896	129,315,940
2	-	2	-	1,007,000
3	27	21	14,586,075	2,361,446
4	49	28	2,062,380	1,581,171
5	587	296	27,521,014	18,380,223
Alterations	<u>12,633</u>	<u>12,114</u>	<u>55,294,750</u>	<u>47,119,579</u>
	13,337	12,489	\$191,920,115	\$199,765,359

Type 1A - Steel frame with reinforced concrete walls and floors
Fire-resistive construction.

Type 1B - Built entirely of reinforced concrete. Fire-resistive
construction.

Type 2 - Similar to Type 1, but with limitations.

Type 3 - Wood frame floors with exterior walls of masonry.

Type 4 - Light incombustible frame construction.

Type 5 - Wood frame construction.

PLUMBING INSPECTION DIVISION

	<u>1965-66</u>	<u>1966-67</u>
Plumbing Permits Issued	4,171	3,361
Sewer Repair or Replacement Permits	294	269
Plumbing Installation Removals	8	7
Water Permits Combined with Plumbing	2,981	2,381
Water Permits Issued	1,420	1,326
Gas Piping and Appliance Permits	12,442	10,659
Gas Permits on Plumbing	4,358	2,752
Gas Installation Removals	3	2
Plumbing Inspections Made	15,851	10,596
Water Inspections Made	3,835	3,000
Water Installation Removals	9	7
Plumbing Complaints Investigated	984	952
Condemnation Reports	55	62
Gas Piping Complaints Investigated	23	15
Gas Appliance Complaints Investigated	90	92
Plumbing Installations Completed	5,027	3,830
Gas Lines Inspected Final	4,106	2,760
Gas Appliances Approved	9,281	6,974
Investigations Requested by Coroner	6	6
Invstallations uncovered that were without permit and against which penalties were assessed	71	64

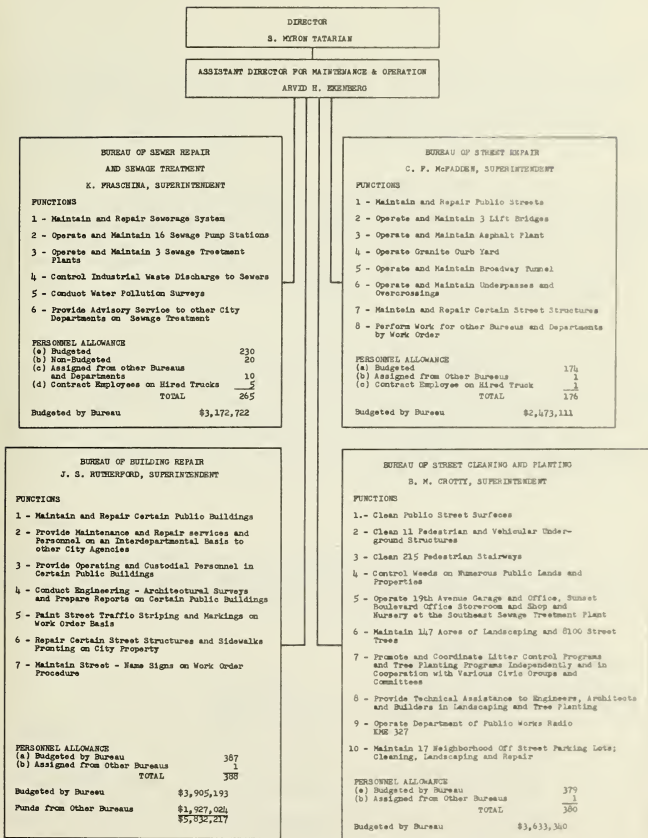
BUREAU OF BUILDING INSPECTION

BUREAU STATISTICS FOR FISCAL YEAR	<u>1965-66</u>	<u>1966-67</u>
Inspections reported by building inspectors	52,137	49,330
Projects remaining on which permits have been issued that have not been reported completed by build- ing inspectors	5,371	4,811
Complaints reported that have been adjusted by building inspectors	2,713	2,318
Inspections reported by boiler inspectors	1,432	1,641
Complaints received and adjusted - boiler and air tanks	409	1,170
Complaints and requests for information recorded	308	2,617
Applications for permits examined and approved by Plan Checking Division	2,208 Bldgs. 1,290 Signs	1,409 Bldgs. 1,250 Signs
Miles traveled during the year by vehicles on inspection service	324,225	412,540
Report of Residential Records issued (3R)	5,906	4,487
Waivers of 3R reports received (first 11 mos. for 1965-66)	596	Deleted

ORGANIZATION RELATIONSHIPS

MAINTENANCE - REPAIR - OPERATION

1966 - 1967



SUMMARY

Total Personnel Allowance.....\$209
Total Budgeted, less reimbursements.....\$15,111,390

MAINTENANCE AND OPERATION BUREAUS

Arvid H. Ekenberg,
Assistant Director of Public Works Maintenance and Operations

GENERAL

The maintenance and operational functions of the Department of Public Works are centered in the four bureaus of Sewer Repair and Sewage Treatment, Street Repair, Street Cleaning and Tree Planting, and Building Repair, with a total of 1209 employees. Functional and organizational relationships of the various bureaus are indicated in other sections of the report.

Work load of the division increases gradually each year as new facilities, such as additional sewage pumping stations, landscaped areas, and neighborhood parking lots, are added to the maintenance program, as well as by the construction of either new or enlarged buildings such as health centers, office areas, and similar structures, which are reported in detail in other sections. During the past year, however, total personnel of these bureaus has increased by only 5, from 1204 to 1209.

Another factor which is becoming increasingly important is the diminution of available manpower occasioned by the shorter work hours and extra holidays now enjoyed by many of the crafts and trades employed in this division, and which is necessarily causing some reduction in services. It is anticipated that the trend toward the lessening of work hours will ultimately be broadened, leaving us no choice but to further curtail services, or increase forces, as increases in productivity do not equate favorably with the manpower losses.

EXPENDITURES

Expenditures by Maintenance and Operation Bureaus amounted to \$12,727,894 from budgeted appropriations and \$1,257,474 from funds received by work order, or a total of \$13,985,368. A breakdown of expenditures and per capita costs follows:

	Total Expenditures	Per Capita Cost (Based on a Population of 715,609 Recorded by Federal Census of 1960)
Street Repair	\$2,348,876	\$3.282
Sewer Repair and Sewage Treatment	3,156,149	4.410
Building Repair	4,896,449	6.842
Street Cleaning and Planting	<u>3,583,894</u>	<u>5.008</u>
TOTAL	\$13,985,368	\$19.543

ORGANIZATION CHART

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1967



**Assistant Bureau Head

BUREAU OF SEWER REPAIR AND SEWAGE TREATMENT

K. Fraschina, Superintendent

The Bureau of Sewer Repair and Sewage Treatment maintains 900 miles of sewers, controls industrial wastes discharge to sewers, and operates 16 pumping stations and 3 treatment plants. During 1966-67, the Bureau had 230 budgeted employees, supplemented by 10 to 18 non-budgeted employees, and 5 hired trucks and drivers in its three divisions.

The Bureau spent \$3,179,062 in budgeted funds, as follows:

	<u>Sewage Treatment</u>	<u>Sewage Pumping</u>	<u>Sewer Repair</u>
PERSONAL SERVICES			
Permanent Salaries*	\$907,508	\$154,174	\$115,265
Overtime*	1,680	349	2,449
Holidays*	25,249	6,978	1,319
Temporary Salaries*	30,998	7,952	
Wages (Per Diem)	135,716		983,994
Sub-Total	1,101,151	169,453	1,103,027
CONTRACTUAL SERVICES			
Power & Gas**	118,194	34,936	
Plant Equipment	84,609	19,306	
Field Equipment	3,493	399	35,470
Sludge Disposal	35,391		
Landscape Maintenance	19,080		
Miscellaneous Services	6,745	1,638	9,599
Hired Trucks			60,855
Sub-Total	267,512	56,279	105,924
MATERIALS AND SUPPLIES			
Replacement Parts	40,734	2,723	997
Field	473		48,171
Plant	19,565	1,754	
Fuels and Lubricants	3,318	588	11,950
Treatment Chemicals	175,465		
Sub-Total	239,555	5,065	61,118
EQUIPMENT			
New	1,595		2,244
Replacement	21,099		45,040
Sub-Total	22,694		47,284
TOTAL	\$1,630,912	\$230,797	\$1,317,353

* Monthly Employees

** In Public Utilities Commission Budget

Sewer Repair Division
Work and Cost Distribution

Work Unit	Work Done	% of Time	Total Cost (a)	Unit Cost (a)
1 Sewer Cleaning	644,131 Lineal ft cleaned Other work	92.4 7.6	\$141,248 11,600	\$0.22 \$152,848
2 Eductor Operations	12,287 Catchbasins cleaned Other work	58.6 41.4	112,041 79,303	9.12 191,344
3 Services	5,103 Complaints serviced Other work	45.7 54.3	70,595 83,790	13.83 154,385
4 Main pipe sewers	7,145 Lineal ft repaired at 478 locations		306,260	42.86
5 Brickwork	16,025 Lineal ft brick sewer repaired 1 Catchbasin constructed 3 Manholes constructed 156 Catchbasins repaired 82 Manholes repaired	82.4 0.2 1.1 10.0 6.3	110,694 287 1,506 13,428 8,369	6.91 287.00 502.00 86.08 102.56
6 Gas detection	2,754 Manholes tested Other work	21.2 78.8	3,162 11,722	1.15 14,884
7 Miscellaneous			43,775	43,775
Total budgeted work			997,780	
8 Work orders (b)			3,501	
9 Side sewers (c)	139 Installations 141 Repairs 12 Connections		116,695 61,409 1,236	617.43 435.52 103.00
Grand Total			\$1,180,621	

(a) Costs do not include supervision, overhead or other indirect charges.
(b) Repairs for other bureaus or departments.
(c) Paid for by property owners.

In addition, the Sewer Repair Division expended \$179,340 for side sewers paid for by property owners and \$3,501 on work orders from other departments. The Sewage Treatment Division received \$2,695 for advisory services to other departments.

SEWER REPAIR DIVISION

The Division cleans, repairs, and makes minor additions to main sewers, side sewers, and related structures; tests sewers for oxygen deficiency and for explosive and toxic gases; and controls mosquitos in catchbasins.

The Division has 109 budgeted employees, 6 to 14 non-budgeted employees (20 are authorized) for side sewer installation and repair paid for by property owners, and 5 hired trucks with drivers. The low number of side sewer employees is a reflection of reduced activity in residential building construction during the year. Work units or groups are as shown in the organization chart. Details of unit functions, methods of operation and equipment used are the same as described in the 1965-66 Annual Report. While many of these groups frequently assist each other, the material trucks, digging unit, and compressor unit are almost entirely subsidiary as their principal function is to assist other units. The Bureau received 5,103 telephone complaints in the year. The activities of the work units are summarized on the table on the facing page and a breakdown of the work done by the service units in the following table:

SIDE SEWER	<u>No. Calls</u>	<u>Percent</u>	
Relieved clogged sewer	3,266	27.6	
Found trouble inside property	245	2.1	
Wet down backfill	59	0.5	
Determine if side sewer exists	303	2.5	
Found side sewer broken	129	1.1	33.8
	4,002		
MAIN SEWER			
Found main sewer broken	221	1.9	
Relieved clogged main sewer	504	4.2	
Examine condition	1,092	9.2	
Wet down backfill	113	1.0	16.3
	1,930		
CATCHBASINS AND MANHOLES			
Remove obstruction	496	4.2	
Replace cover	209	1.8	
Silence noisy cover	348	2.9	
Examine condition	174	1.5	10.4
	1,227		
MISCELLANEOUS			
Service lights and barricades	3,771	31.9	
Investigate seepage and leaks	251	2.1	
Clean pump stations	202	1.7	
Deliver material to job	148	1.2	
Remove deposits on sidewalk	7	0.1	
Depressions not sewers	200	1.7	
Not classified	97	0.8	39.5
	4,676		
TOTAL	11,835	100.0	

Two major sewer failures occurred during the year requiring the declaration of an emergency. On January 22, 1967 the sewer in 26th Street between Diamond and Castro Streets collapsed. It was necessary to replace 178 ft. of 15 in. main sewer pipe and 70 ft. of 6 in. pipe in 10 side sewers at a cost of \$6,466. The second failure occurred on March 14, 1967 in Diamond Street between 24th and Elizabeth Streets. Here 245 ft. of 15 in. main sewer and 105 ft. of 6 in. pipe in 12 side sewers were replaced at a cost of \$6,836.

The picture below shows collapsed pavement, the void caused by earth carried away in the sewer, and a broken manhole structure caused by sewer failure at the intersection of Duncan and Diamond Streets. Although only 36 ft. of 15 in. pipe and the structure were replaced, the void shown is typical of the serious undermining of the pavement which occurred in 26th Street and Diamond Street.



Division activity is markedly affected by the weather. For example, the rainstorm which occurred on the weekend of January 20 to 22, 1967 required servicing 187 complaints at a cost of over \$4,000 overtime. The work done was freeing 69 plugged side sewers and 6 plugged main sewers, cleaning 89 flooded catchbasins, replacing 10 manhole covers, repairing 6 main sewer breaks and servicing 7 miscellaneous complaints.

Reinfall for the year was 29.41 inches, making it the wettest year since 1951-52. The heavy rainfall undoubtedly contributed to the collapsing of the sewers described above as well as to numerous other minor breaks, and to increased frequency of calls to relieve clogged side sewers and main sewers experienced in the year.

Occasionally sewers are damaged by construction work. An unusual illustration of this problem occurred at the site of the new building under construction at 1 California Street. The contractor was installing diagonal tie-back shoring under the sidewalk. At one spot

he drilled through the top of the 8 in. sewer on the north side of Market Street. When concrete grout was pumped into the tie-back hole it flowed into the sewer and plugged a 26 ft. section. The picture below shows a piece of the sewer containing solidified grout. The problem was discovered when building basements upstream were flooded. Fortunately, there was a manhole close enough upstream from the plug from which sewage could be pumped to a nearby independent sewer in Market Street. Since the plugging occurred late on a Friday evening, the Sewer Repair Division installed a pump and operated it over the weekend to prevent flooding of building basements upstream.

On Monday, the contractor took over the pumping operation, and commenced repairing the sewer. This work was not completed as of June 30, 1967. It is expected that it will be done at no cost to the City.



SEWAGE PUMPING DIVISION

The Division has 15 budgeted employees and operates and maintains 16 permanent stations. Four are in the North Point drainage district, six in the Richmond-Sunset district and six in the Southeast district. Operating data are given in the table on the facing page.

Two new stations were placed in operation in the year. The Fourth Street South station, with two 240 gpm pumps and serving a 25-acre area, started July 15, 1966. The 20th and Illinois station, with two 270 gpm pumps and serving an industrial area of 27 acres, started September 7, 1966.

In addition, the Commercial Street station was operated continuously until November, 1966, when the remaining area tributary to it was demolished as part of the Golden Gateway Redevelopment project. The Park Merced station was maintained in operating condition as a permanent standby to relieve the load on the Lake Merced station when necessary. The station was operated once during the year.

The 24 hour per day, seven days per week roving crew station coverage with five day per week manning of the Marina and Drumm Street stations begun last year continued during the year. This system has reduced station bypassing, but this could be still further reduced if more maintenance manpower and a maintenance truck were available.

The stations are designed to handle normal dry weather flow plus runoff from 0.02 in. per hour rainfall. The program of installing automatic influent throttling gates in major stations to fully utilize station capacity during storms was completed during the year. The stations now so equipped are Drumm Street, Fourth Street, Lake Merced, Marina, Sea Cliff No 2, and Yosemite Avenue.

Other improvements completed were revision of influent gate and pump controls at the Marina station, a check valve closing control system at the Lake Merced station, and conversion of pump controls from float operated switches to pneumatic level sensing devices at Sea Cliff No. 2 and Yosemite Avenue stations. Installation of hydraulic check valve controls at Fourth Street station was in progress at the end of the year.

The elimination of sand traps at Fitzgerald and Mariposa Street stations and the reshaping of the sump at the Mariposa station completed in June, 1966 have greatly reduced need for station bypassing to clean the bar racks and sumps.

Major operating difficulties during the year occurred principally at the Lake Merced station, where bearing failures, impellers falling off shafts, and repeated malfunctioning of the control system for one pump were constant sources of trouble. In addition, vandalism continues to be a problem. For example, exteriors were defaced, door locks were broken, and doors were smashed several times at the Pine-lake and Fulton Street stations.

Sewage Pumping Stations
Expenditures and Cost Data

Location	Drainage Area In Acres	Million Gallons Pumped	Salaries	Main-tenance	Power	Materials & Supplies	Totals	Cost Per Mil Gal Pumped
General (a)			\$10,660	\$577	\$79	\$700	\$12,016	\$1.29
Commercial Street (b)		(d)	676	87	204		967	
Drumm Street	332	1,116	24,033	1,287	4,181	263	29,764	26.67
Fitzgerald Avenue	30	105	6,076	214	838	58	7,186	68.44
Fourth Street	138	2,235	20,205	2,987	5,793	285	29,270	13.10
Fourth Street South	25	65	2,794	90	426		3,310	50.92
Fulton Street	82	92	5,707	467	734	173	7,081	76.97
Hunters Point	90	138	8,389	237	887	89	9,602	69.58
Hyde Street	14	78	5,707	497	378	549	7,131	91.42
Lake Merced	930	910	15,706	2,908	3,916	659	23,189	25.48
Marina	1,125	2,481	24,642	5,895	6,740	533	37,810	15.24
Mariposa Street	117	296	9,621	1,517	1,675	238	13,051	44.09
Park Merced (c)		4	4,129	18	1,433		5,580	
Pinelake	3	4	129	271	177		577	144.25
Sea Cliff #1	4	3	129	777	62		968	322.67
Sea Cliff #2	84	100	6,402	741	1,783	74	9,000	90.00
Twentieth Street	27	15	858	57	179	31	1,125	75.00
Vicente Street	52	79	5,707	392	633	51	6,783	85.86
Yosemite Avenue	1,277	1,592	17,883	2,324	4,818	1,362	26,387	16.57
Totals	4,330	9,313	\$169,453	\$21,343	\$34,936	\$5,065	\$230,797	\$24.78

(a) Power bills for 24th Avenue & Lake Street gate included in General costs (Power and Light).

(b) Abandoned November 1966 as part of Golden Gateway Redevelopment project.

(c) Maintained as a standby for 212 acres tributary to Lake Merced station.

(d) Very small flow; no means available for measurement.

Note: Salaries not correctly distributed in 1965-66 fiscal year.

SEWAGE AND WASTE TREATMENT DIVISION

The Division operates and maintains the North Point, Richmond-Sunset, and Southeast Sewage Treatment Plants, controls industrial waste discharges, and advises other City departments on sewage treatment facilities under their jurisdiction.

The Division has 106 budgeted employees, an increase of four over last year, distributed as shown in the organization chart, supplemented by four employees assigned from the Bureau of Building Repair. Major repairs and maintenance requiring specialized crafts are done by work order to other Public Works bureaus and the Purchaser's shops, or by contract with private firms. Funds are transferred to the Bureau of Street Cleaning and Tree Planting for landscaping.

Methods used to provide primary treatment are the same as described in the 1965-66 annual report. Operating data are summarized in the table on the facing page. Cost of operation was approximately \$2.17 per capita, based on an estimated tributary population of 750,000.

Effluent chlorination at the Southeast plant was instituted August 22, 1966 to meet requirements of Regional Water Quality Control Board Resolution 718. To do this, it was necessary to install a new chlorinator and rehabilitate chlorine storage, transporting, and piping facilities under emergency procedures.

In December, 1966, the Division changed its policy on quantity of flow to be handled during storms in an effort to minimize overflow to receiving waters. Where formerly major emphasis was placed on conservation of equipment, the new policy emphasizes utilization of maximum physical plant capacity. As a result, rates of maximum storm flow treated increased from 133 to 164 mgd at the North Point plant, from 35 to 42 mgd at the Richmond-Sunset and from 40 to 42 mgd at the Southeast plant.

Two improvement contracts at the Richmond-Sunset plant were completed in the year. The first, begun in May, 1965 for increasing sedimentation capacity and modernizing chlorination facilities, was completed in October, 1966. The second, for installing a standby digester gas recirculation compressor, was completed in February, 1967. Replacement of the main power feed line to the Pretreatment Building at the Richmond-Sunset plant mentioned in last year's report is scheduled for next fiscal year.

At the Southeast plant, warranty testing of the automatic drawoff control for sludge thickening and elutriation, and the scum problem associated with gas recirculation in digester No. 7, mentioned in last year's report, are both still unresolved.

The Department awarded three contracts in the year for extension of the Southeast plant effluent outfall line. This work, to meet Water Quality Control Board requirements, is described in the Bureau of Engineering section of the report, since that bureau is responsible for design and construction of capital improvements.

Maintenance needs are increasing as a result of need to rehabilitate major units after 15 or more years' service. The level of routine

Treatment Plant Operation

	North Point	Richmond-Sunset	Southeast
Sewage Flow, million gallons			
Total (a)	22,061	7,033	7,173
Avg day	60.4	19.4	19.9
Avg day, dry weather (b)	54.7	19.0 (c)	18.8 (c)
Max day, wet weather	145.6	34.9	29.8
Max day, dry weather	69.0	22.4	26.3
Max rate, wet weather	164	42	42
Max rate, dry weather	93	36	36
Screenings, cu ft			
Total	70,729	26,348	36,413 (d)
Max day	320	158	405
Per million gallons	3.2	3.7	5.1
Grit, cu ft			
Total	70,076	41,900	(d)
Max day	972	400	
Per million gallons	3.2	6.0	
Chlorination, lb (e)			
Pre	305,680		
Post	1,864,490	611,200	1,191,420
Total	2,170,170	611,200	1,191,420
mg per liter dry weather	14.8	11.4	30.9
Sludge Solids, M lb (dry)			
From sedimentation	26,475		87,440 (f)
To digesters		5,770	56,294
Filter cake		1,020	13,198 (g)
Ferric Chloride			
Total, lb		41,150	619,700
% filter cake solids		4.03	4.70
Gas Production, M cu ft			
Total		61,316	277,443
Avg day		168	760
Power and Gas purchased			
Power, total M kwh	5,892.0	1,980.4	4,825.2
Power, avg/mo, M kwh	491.0	165.0	402.1
Natural gas, total therms (h)	82,180	12,555	11,009
Natural gas, avg/mo, therms (h)	6,848	1,046	917
Hauling			
Trips, grit & screenings	690		300
Trips, grit		292	
Trips, filter cake to parks		337	1

(a) For 365 days North Point; 362.3 days Richmond-Sunset; 360.2 days Southeast.

(b) Excluding days with .01 inch or more rain and dry days following days with .05 inch or more rain.

(c) Excluding days flow partially bypassed for reconstruction or malfunction.

(d) Combined screenings and grit; discharged into common storage bin.

(e) North Point: prechlorination as needed for odor control; postchlorination continuous except during storms through November, continuous from December. Richmond-Sunset and Southeast (from August 22) continuous except during storms.

(f) Includes recirculating load from sludge processing overflows.

(g) On wet basis: 21,145 tons hauled to sanitary fill and 7.5 tons used by City.

(h) 1 therm = 100,000 Btu; reported in C cu ft in previous years.

maintenance has remained relatively constant, and is high because of rapid equipment wear from handling combined sewage containing grit. The picture below shows one of two 10-ft. long by five ft. diameter rotating screens at the North Point plant in operation since December 1951 to screen effluent used for chlorination and water sprays, which had to be disassembled and rebuilt in the year, at a cost of \$7,902.



Other major maintenance was as follows:

NORTH POINT PLANT

- Repainting exteriors of four buildings.
- Rebuilding two high-pressure steam cleaning units.
- Replacing east sump steel ground water relief piping with PVC pipe.
- Replacing hot water heater and piping in sedimentation building.

RICHMOND-SUNSET PLANT

- Renewing collectors and resurfacing floor in No. 1 grit tank.
- Relocating gas line and repairing walkways on 100-ft. digester.
- Renewing safety railing on roof of digester control house.
- Replacing sludge hopper air agitators in Nos. 1, 3, and 4 sedimentation tanks.
- Removing top course of glass block from sedimentation building windows to improve ventilation.
- Installing brick dams in grit tank bypass channels to stop raw sewage leakage from gates.

SOUTHEAST PLANT

- Repainting exterior of three buildings.
- Rebuilding Nos. 1 and 2 main lift pumps.
- Reconditioning nine hydraulic rams on filter cake storage bin.
- Reconditioning Nos. 2 and 4 vacuum filters.
- Replacing filter cake conveyor belt in the Filter Building.

The Division does special studies and investigations to improve operation, furnish data needed by the Bureau of Engineering, assist other bureau divisions, and advise other City departments.

The Regional Water Quality Control Board adopted a new self-monitoring program for the North Point plant and changed the southeast plant program, which greatly increased laboratory workloads in the year. This work, now routine, was listed under special studies in previous reports.

The Division has commenced and is continuing an intensive evaluation of chlorination for effluent disinfection. The reasons for this are that first, the Regional Water Quality Control Board through a complex series of resolutions adopted over the past two years has established a firm policy requiring adequate disinfection of all wastes discharged to the bay or ocean and second, chlorine is the largest single item of expenditure for materials and supplies. Total cost this year was \$148,328, of which \$44,035 was for 10 months' chlorination at the Southeast plant, required for the first time this year.

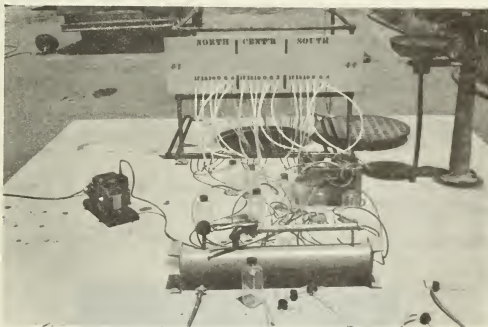
Chlorine mixing is one of several aspects of chlorination being investigated. By a series of evolutionary experiments the new chlorine mixing facilities at the Richmond-Sunset plant were slightly modified to achieve uniform mixing. This installation was then used as a model for the design and installation of two mixing weirs at the Southeast plant.

The picture below shows one of the two weirs and the modified diffuser installed in the Southeast plant chlorination structure.



Although proper mixing was not obtained because of hydraulic differences in the two installations, the data from this trial operation will provide a logical basis for the next evolutionary step.

This work also illustrates the complexity of many of the special studies. The sampling device shown below was developed to take three to nine simultaneous samples of the flow cross section at varying flow rates over a weir in the Southeast plant chlorination structure. The cylinder in the foreground is a vacuum chamber which provides the necessary suction to draw the samples through the tubes to the sample bottles.



Other special work included the following:

COMPLETED

- Chlorine contact time and coliform dieoff.
- Effluent chlorine demand in storm flow.
- Offshore bay water survey on effects of East Bay Municipal Utility District and Southeast plant chlorination.
- Suspended solids effect on chlorine residual and coliform mortality.
- Evaluation of Southeast plant grit tank performance.
- Chlorine demand of storm water overflow from Selby diversion structure for demonstration grant studies of treatment of combined storm overflows.
- Comparison of grit separation by cyclones and conventional grit washers.

CONTINUING

- Comparison of material for Purchasing Department.
- Coliform and enterococcus die-away rates in bay water.
- Column partition chromatographic test for volatile acids.
- Evaluation of polymer coagulant for vacuum filtration.

The Industrial Waste section of the Division has two budgeted employees and inspects industrial plants to check waste discharges for compliance with the industrial waste ordinance.

During the year, 3,027 routine inspections were made and 520 complaints were investigated and resolved. A total of 1,407 industrial waste samples were taken by the section and analyzed by the section and the treatment plant laboratories.

Industries installed or improved the following units:

Rerouting sewer lines at one trucking firm to eliminate source of gasoline entering system.

Holding and neutralizing tanks at two meat packing plants and one plating plant.

Settling basins at three concrete mixing plants.

Screens and settling basins at three coffee processing plants.

Screens, grease separators, and rotating skimmers at one rendering plant.

Screens and settling basins at one paint manufacturing plant.

Fine mesh screens and additional settling basins at two barrel washing establishments.

A laboratory built into a van truck was placed in service in July and proved effective for on-the-spot analyses for pH, temperature, settleable solids, chlorine residuals, and combustible gas. The picture below shows the interior of the mobile laboratory.



ORGANIZATION CHART

BUREAU OF STREET REPAIR

CITY AND COUNTY OF SAN FRANCISCO

JUNE 30, 1967

SUPERINTENDENT C. F. MCPADDEN
ASST. SUPERINTENDENT O. D. SPEARS

CLERK TYPIST
MRS. C. MARTINEZ

ASPHALT DIVISION MAINTENANCE AND REPAIR GENERAL FOREMAN F. SCARDINA
5 Asphalt Finisher Sub-Foreman 2 Laborer Sub-Foreman 11 General Laborers 2 Oper. Engineers, Universal 11 Asphalt Finishers 11 Asphalt Drivers, Heavy 10 Truck Drivers, Light 4 Truck Drivers, Light

RESURFACING DIVISION MAINTENANCE AND REPAIR GENERAL FOREMAN J. TIRRELL
1 Asphalt Finisher Foreman 2 Asphalt Finisher Sub-Foreman 1 General Laborer Sub-Foreman 4 Asphalt Finishers 6 Asphalt Workers 1 General Laborer 1 Truck Driver, Heavy 1 Truck Driver, Light 4 Oper. Engineers, Universal

CONCRETE DIVISION MAINTENANCE AND REPAIR GEN. FOREMAN J. RHODES
2 General Laborer Sub-Foreman 1 General Laborer 3 Granite Cutters 14 General Laborers 1 Mixed Truck & Driver 4 Truck Drivers, Heavy 1 Truck Driver, Light

ASPHALT PLANT MAINTENANCE AND OPERATION FOREMAN A. C. DEPOISTER
3 Dryer-Mixer 1 Laborer 1 Laborer

BRIDGES AND TUNNEL MAINTENANCE AND OPERATION ELDG. MAINT-SUPT.* R. DAVIDSON
7 Signalmen 1 Signalman 2 Stationary Engineers 12 Bridge tenders * Part time services from Bureau of Building Repair

ASSIGNED TO OTHER BUREAUS
1 Watchman 2 Gen. Laborers

MAINTENANCE AND OPERATION

BUREAU OF STREET REPAIR

C. F. McFadden, Superintendent

FUNCTIONS

Routine work includes the maintenance and repair of streets and appurtenant structures such as gutters, curbs, retaining walls, public stairways, pedestrian underpasses and overpasses, guard rails and fences; the maintenance of City dumps; the maintenance and operation of lift bridges, tunnels, and a pumping station in the Geary Street underpass at Fillmore Street.

Work ordered by the Director includes traffic channelization, minor street alterations, minor construction and emergency work for the protection of the City and/or the public.

Work performed for other departments or bureaus includes the repair of pavement in Municipal Railway track areas, the repaving of trenches opened by the Bureau of Sewer Repair for the installation or repair of side sewers, the repair of certain State highways within the City and the repair of pavements in school yards and the yards of other City institutions. The Bureau also performs other minor services of varied nature.

The City's Charter provides that the repair or reconstruction on any one job shall not exceed a cost of \$5,000. It also prohibits work on unaccepted streets, except in emergency, and on sidewalks in front of private property. Unaccepted streets are those streets that have not been properly improved and officially accepted for maintenance and repair by the City.

Activities are further limited by State law (the Collier-Burns Highway Act of 1947 as amended) governing the expenditure of monies from which the bureau is financed.

Maintained road mileage is as follows:

Select System (comprised of Major Arterial Streets and Collector Streets)	323.34
Minor Roads	<u>516.79</u>
Total Local Roads	840.13
State Highways (by maintenance agreement)	<u>10.37</u>
TOTAL	850.50

Inasmuch as San Francisco is a combined City and County, its streets and road systems are one and the same.

ORGANIZATION AND PERSONNEL

The organization and personnel of the bureau remained about the same as for the previous year, with the following exception:

Numerous limited tenure appointments were again made during the year in Class 7354, Truck Driver, Heavy. In May, 1967, an examination was held to establish a list for this classification. We expect that the 14 vacancies in the bureau will be filled by permanent appointment during the next few months.

An Organization Chart as of June 30, 1967 accompanies this report.

SUPERVISION

No changes were made in the Bureau's supervisory force, which is composed of a superintendent, assistant superintendent, three general foremen, asphalt plant foreman, and the part-time services of a building maintenance superintendent, who oversees the operation of three lift bridges and the Broadway Tunnel.

It is of interest to note that the Bureau's intensified safety program has produced results. Lost time injuries during 1966-67 totaled six, as opposed to sixteen in 1965-66. For a period of 155 days during 1966-67 the Bureau had no lost time injuries. The Bureau's safety program is under the direction of the Assistant Superintendent.

EQUIPMENT

Equipment procured during the year consisted of replacements for worn out units, with the exception of a new 10-key adding machine.

Equipment replacement consisted of two four-yard dump trucks, three pickup trucks, three crew and tool trucks, one flat bed truck with a hydraulic crane, one 150 C.F.M. portable rotary compressor, one 300-lb. capacity sandblast machine, two pavement breakers, and four aluminum concrete-mixing boxes.

All of our replacement trucks are equipped with 360° revolving amber lights mounted on top of the cabs. We feel that this is a worthwhile safety feature, because of increasing vehicular traffic, especially in the downtown area.



NEW FORD F-850

DUMP TRUCK



NEW INTERNATIONAL

MODEL 1600

CREW AND TOOL TRUCK



NEW INTERNATIONAL

MODEL 1500B

CREW AND TOOL TRUCK

WORK PERFORMED

	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
Asphalt Resurfacing - Hand Asphalt Paving	Sq. Ft.	333,433	\$.1569	\$52,319
(140.8 sq. ft. per ton)	Tons	2,368	22.094	
Asphalt Resurfacing - Machine Asphalt Paving	Sq. Ft.	4,947,470	.0671	331,746
(158.0 sq. ft. per ton)	Tons	31,309	10.596	
Asphalt Resurfacing - Box Asphalt Paving	Sq. Ft.	575,209	.1541	88,626
(105.1 sq. ft. per ton)	Tons	5,475	16.187	
Asphalt Patching	Sq. Ft.	783,568	.337	263,971
(145.3 sq. ft. per ton)	Tons	5,391		
Asphalt Paving (Cut-Outs)				
Compressor Work	Sq. Ft.	194,405	.2265	44,027
Asphalt Paving	Sq. Ft.	228,317	.2332	53,242
(90.0 sq. ft. per ton)	Tons	2,538		
Cleanup	Sq. Ft.	228,317	.2800	63,927
Curb Reset and Replaced				
Compressor Work	Lin. Ft.	38,661	55,401	1.433
Granite Reset	Lin. Ft.	16,545	33,969	2.053
Granite Replaced	Lin. Ft.	4,100	12,210	2.978
Concrete Reset	Lin. Ft.	506	1,148	2.269
Concrete Replaced	Lin. Ft.	7,510	28,823	3.838
Pavement-Asphalt	Sq. Ft.	22,335	11,257	.504
Pavement-Concrete	Sq. Ft.	6,101	9,353	1.533
Sidewalk	Sq. Ft.	8,668	10,428	1.203
Cleanup	Lin. Ft.		78,864	

	<u>Unit</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
Concrete Curb Repair				\$42,557
Curb Yard				
Redress Granite	Lin. Ft.	8,758	\$1.915	16,775
Sort, Move, etc.				14,638
Total				<u>31,413</u>
Crack Sealing				
Sealing	Lin. Ft.	1,990,750	.0837	166,688
Cleanup				21,360
Total				<u>188,048</u>
Manhole Casting Reset	Each	656	71.268	46,752
Concrete Pavement Repaired	Sq. Ft.	4,648	2.232	10,373
Sidewalk Reconstructed	Sq. Ft.	63,933	.917	58,646
Heater Planing	Lin. Ft.	274,724	.212	58,263
Slide & Debris Cleanup				43,271
State Highways				
Asphalt Paving	Sq. Ft.	313	.575	180
Work for Other Bureaus and Departments				
Asphalt Paving				60,323
Concrete Paving				15,787

MUNICIPAL ASPHALT PLANT

Asphaltic mixtures produced at the Municipal Asphalt Plant during 1966-67 were as follows:

COMPOSITION - %

Mix Designation	<u>Tons</u>	<u>Asphalt</u>	<u>#6</u>	<u>5/16"</u>	<u>5/8"</u>	<u>1 1/2"</u>
Surface	2,868	8 1/2	91 1/2			
School	6,504	7	60	33		
Topeka	40,996	6	45	25	24	
Spreader	357	5 1/2	40	25	17 1/2	12
Binder	73	3 1/2	21	28	22 1/2	25
Cold	<u>212</u>	*	35 1/2	27 1/2	30	
TOTAL	51,010					

* 1% asphalt and 6% Pacific Specification 300 fuel oil.

Aggregates were screened into "hot bin" from a combination of Antioch (fine graded) sand, coarse graded sand, and three sizes of gravel. Asphalt used was 60 - 70 penetration, paving grade.

Production costs for the 51,010 tons produced during the year were as follows:

Direct Labor	\$60,151	or	\$1.18 per ton
Indirect Labor	2,794	or	.05 per ton
Overhead	14,716	or	.29 per ton
Materials	190,322	or	3.73 per ton
Gas, Electricity, etc.	<u>17,135</u>	or	<u>.34 per ton</u>
TOTAL	\$285,118	or	\$5.59 per ton

The plant operated satisfactorily during the year, with no major breakdowns.

All maintenance work and worn part replacement was done during periods of low production and/or on Saturdays.

During June, 1967, the dust collecting system, dryer, and cold elevator were painted by the Bureau of Building Repair.

BRIDGES, TUNNELS, AND UNDERPASSES

The City's three bascule type bridges, the Broadway Vehicular Tunnel, and the pumping facilities in the Geary Expressway Underpass at Fillmore Street have all been described in detail in previous reports.

The only mishap of consequence during the year occurred at the Third and Channel Street Bridge when one of the shock absorbers at the south end of the bridge broke loose from its pedestal and fell into the channel. It was necessary to engage the services of a diver to recover the unit. A contract has been awarded to remount the shock absorber, and the work will be done within the next month. The bridge is operational, but extreme caution must be exercised when seating the bridge in order to avoid damage to the leaf.

Bridge openings during the past year and the previous five years were as follows:

<u>Year</u>	<u>Third Street</u>	<u>Fourth Street</u>	<u>Islais Creek</u>
1966-67	2662	1769	456
1965-66	1907	1365	478
1964-65	1866	1627	287
1963-64	2100	1697	391
1962-63	2207	1842	589
1961-62	2122	1650	941

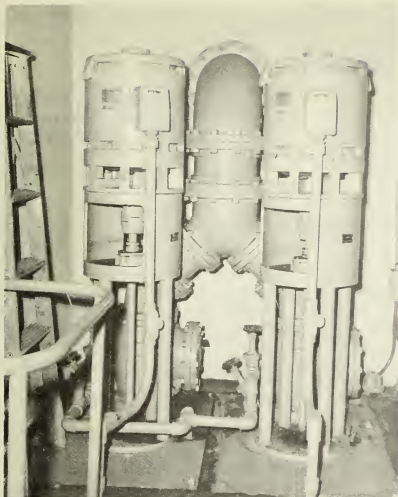
The increase in openings at the Third and Fourth Street bridges is attributed to berthing of an increasing number of fishing boats and pleasure craft in the channel west of the Fourth Street Bridge. It is not necessary to open the Fourth Street Bridge for some of the smaller craft during low tides. However, the Third Street Bridge must be opened for all passages. This accounts for the variation in openings at the Third and Fourth Street bridges.

It is expected that a contract will be awarded for extensive reconstruction of the drive machinery and electrical facilities at the Fourth Street Bridge. The principal change will be the conversion from D.C. to A.C. power supply for bridge operation, with attendant motor, control panel, and electrical switchboard modifications.

Statistics regarding the Broadway Tunnel ventilating and lighting are as follows:

Ventilation - Blower Operating Time

<u>Year End- ing June</u>	<u>North Bore, Westbound Traffic</u>				<u>South Bore, Eastbound Traffic</u>			
	<u>Slow</u>		<u>Fast</u>		<u>Slow</u>		<u>Fast</u>	
	<u>Hours</u>	<u>Percent</u>	<u>Hours</u>	<u>Percent</u>	<u>Hours</u>	<u>Percent</u>	<u>Hours</u>	<u>Percent</u>
1967	152.0	1.73	10.1	.11	130.0	1.48	91.4	1.04
1966	173.3	1.97	12.6	.14	48.8	.56	27.8	.32
1965	497.8	5.68	16.5	.19	73.1	.83	29.5	.34
1964	657.0	7.48	12.8	.14	52.6	.60	30.0	.34
1963	467.8	5.34	12.0	.13	42.6	.49	27.0	.31



PUMPS AT GEARY AND FILLMORE
UNDERPASS PUMPING STATION



ONE OF FOUR VENTILATING FANS
AT THE BROADWAY TUNNEL

Lighting - Lamps Replaced

	<u>Occasions</u>	<u>72T8's</u>	<u>72T12's</u>	<u>Total</u>
Lamps in Service		1004	332	1336
Replaced During Year	1	373	13	386
Previously Replaced	<u>54</u>	<u>7415</u>	<u>590</u>	<u>8005</u>
TOTAL (Since Dec. 1952)	55	7788	603	8391

Traffic Counts

		<u>Eastbound</u>	<u>Westbound</u>
Thursday	February 9, 1967	13,841	11,841
Tuesday	March 3, 1964	11,589	10,723
Tuesday	December 15, 1959	12,216	10,359
Thursday	July 10, 1958	11,144	9,478
Wednesday	March 16, 1955	10,609	9,795
Monday	August 17, 1953	9,361	8,878
Wednesday	February 11, 1953	8,668	8,770

The tunnel was put into service in December 1952.

The Geary Expressway Underpass pumping station at Fillmore Street was described in the report for the year ending June 30, 1963.

The station continued to operate satisfactorily, with one exception. The high water warning system was temporarily inactivated because the lower portions of the auxiliary probotrols became corroded. The auxiliary probotrols are sensing devices that activate the alarm systme if for any reason the regular system fails.

Above-normal rainfall during the fiscal year accounts for the increased operating hours of the pumps. Following are the operating hours during the year and for previous years:

<u>Year</u>	<u>Pump #1</u>	<u>Pump #2</u>
1966-67	394	349
1965-66	289	305
1964-65	277	249
1963-64	380	375
1962-63*	239	246

* Pumps operated for approximately seven months during year.

JUNE 30, 1967



MAINTENANCE AND OPERATION

BUREAU OF BUILDING REPAIR

J. Rutherford, Superintendent

This Bureau is the largest unit in the Department of Public Works in terms of number of employees and size of budget. It also has the most varied type of work force, consisting of over 50 different Classes of employments.

FUNCTION

The Bureau's primary function is to maintain and repair 326 public buildings as well as provide operational and/or janitorial services for 107 of these buildings, on a budget of approximately \$3.9 million dollars and a work force of approximately 400 employees. In addition, maintenance and repairs are performed for other departments by means of a budget transfer or interdepartmental work order procedure. A significant portion of this type of work was performed for the following departments:

1. School Department, with over 135 school buildings.
2. Recreation and Park Department, with over 300 buildings and structures.
3. War Memorial, deYoung Museum, Legion of Honor, public utilities, etc.
4. Bureau of Engineering.
 - a. Street traffic painting and maintenance of street name signs.
 - b. Maintenance and repair of street structures, sidewalks, traffic control devices, and various monuments.

ORGANIZATION

As indicated by the organizational chart, the work force is nearly evenly divided between operation and repair functions.

The Operation Division consists of 183 budgeted housekeeping positions, including janitors, window washers, elevator operators, and stationary engineers, who are assigned to the major buildings and institutions.

The Repair Division consists of 196 building trade mechanics, representing 12 different crafts. Eighty-six of these are permanent budgeted positions. The remaining 110 positions are classified as interdepartmental, and are filled on an "as needed" basis, depending upon the work load and availability of funds.

The Administrative Division consists of a Superintendent and a staff of 7 which performs the required administrative functions of planning, budgeting, accounting, payroll, and personnel. The Engineering and Architectural team makes frequent inspections of the physical plant in connection with the Preventive Maintenance Program, and is responsible for all contract work. By Charter requirement all work over \$5,000.00 must be done by competitive contract. In actual practice, many jobs for as little as \$500 are contracted out because of the specialized nature of the work, time and manpower limitations, or because the work can be done more economically than by City forces. During the year, 75 contracts, totaling \$128,929, were awarded on a

competitive bid basis, as shown in Figure 4.

INTERDEPARTMENTAL WORK

The major portion of the interdepartmental work was generated by the School Department. During the year, 15,995 requisitions were completed for miscellaneous school repairs, which averages 63 per work day. Of this total, 4,287 were emergency requests, requiring immediate response. 40% of these jobs cost \$25 or less and 84% were completed at a cost of less than \$100. The interdepartmental overhead averaged 42.02%, as compared to 43.77% for the previous year. The overhead consists of items over which the Bureau has little control, such as retirement, workmen's compensation, sick leave, vacations, supervision, etc.

SIGNIFICANT CHANGES

This year the full impact of the reduced work week for many of the crafts made itself felt to an alarming degree. The total reduction in the working hours represents a loss of 15 full time permanent positions and a corresponding and inevitable reduction in the level of maintenance. Unfortunately, repair work does not lend itself to automation or significant increases in productivity, and unless additional employments are allowed, to compensate for this erosion of manpower, an adequate maintenance program cannot be accomplished.

During the year the Department of Social Services requested and arrangements were made to transfer their janitorial function and the related personnel to this Bureau on a work order basis. This consolidation should result in better service and should relieve their staff of the nuisance of housekeeping and personnel problems.

Discussions are currently being held with the heads of two other departments regarding the feasibility of similar consolidations of certain operating personnel. While it may be true that these consolidations are in the general interest of the City, there is a practical limit to the number of employees and additional responsibilities that this bureau can absorb without some increase of supervisory and office staff.

During the year, the Bureau has been assigned the responsibility for budgeting and maintenance and repair of several newly-completed facilities, as follows:

Fire Department Headquarters, 264 Golden Gate Avenue
Health Center No. 1, 17th and Pond Streets
Western Addition Branch Library, 1550 Scott Street
Health Center No. 2, Pierce and Ellis Streets
Health Center No. 3, Silver and Barneveld Avenues
Excelsior Branch Library, Mission and Cotter Streets
Hidden Valley Ranch, La Honda.

MAINTENANCE AND OPERATION

PROBLEMS:

Increasing Budget: Despite a concerted effort to hold the line on expenditures, the budget and employments continue to increase due to circumstances beyond the Bureau's control, some of which are:

- a. **New facilities.** The City continues to build new fire houses, libraries, health centers, and recreational units, all of which require additional funds and employments for their operation as well as maintenance and repair.
- b. **Increased wages and reduced work week.** New craft agreements have resulted in higher wages and reduced working hours. Unless additional employments and funds are provided to compensate for this loss of manpower, inadequate maintenance and premature deterioration of public buildings will occur.
- c. **Mechanical complexities.** Many designers now seem to favor complex and sophisticated mechanical systems for heating and ventilating, not to mention air conditioning. All of this additional equipment is costly to maintain and repair. Considering the mild climate, one wonders if elaborate air conditioning equipment for minor buildings is worth its cost.

Accounting: Despite an expanding EDP facility, the up-to-date cost information this bureau needs to operate is provided too late to be of real value. As a consequence, a duplicate local accounting system must be maintained by the Bureau. This task employs the full time of one senior clerk, and presents many problems.

Payroll and Personnel: The trend here is one of increasing complexity and paperwork. Of the two Assistant Superintendents, one must devote nearly full time to this activity.

Civil Service Examinations: Due to delays in holding examinations and determining a list of eligibles, it has been impossible to fill some key jobs with permanent appointments. For example, a key foreman in the carpenter shop has been on leave on a temporary call to another department since January 18, 1965 to fill an important vacancy. As of June 30, 1967 an examination had not yet been held for that position. As a result, for over two and a half years this bureau has been without a permanent carpenter foreman in one of the most important shops in the organization.

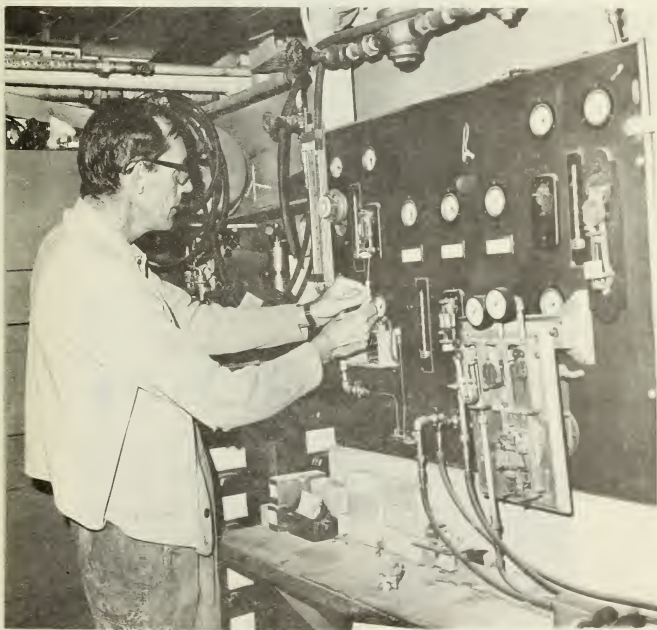
Space Requirements: The bureau has completely outgrown its facilities, which were built 16 years ago. Additional space is required for the stores warehouse and for most of the shops in order to operate effectively.

PROGRESS

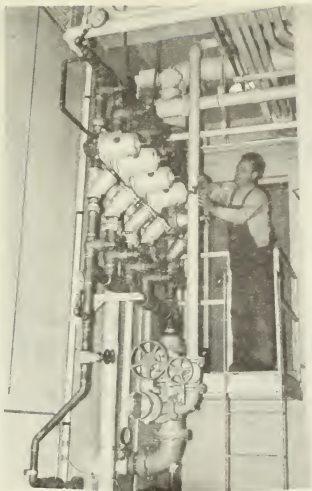
Development of the annual work program has continued and is showing good results. By June 16, 1967, all shops had been issued a complete and detailed work program for the forthcoming year, including all

the bureau's budgeted work, the Recreation and Park Department's budgeted work, and anticipated work from such other agencies as the Palace of the Legion of Honor, deYoung Museum, War Memorial, and School Department. The total work force was then adjusted to this new work program by reductions in employments for most shops and additional employments in a few others. The office staff in addition to all the extra work involved in closing out the old year was able to set up the required accounting records for some 510 accounts needed to start business July 1, 1967.

During the year, delivery was made on 24 trucks and cars to replace old equipment. Funds are set aside for this purpose in the overhead reserve account from the interdepartmental work orders. The fleet now consists of 12 cars and 59 trucks, and 12 miscellaneous trailer-mounted pieces of equipment.



REPAIRING AND CALIBRATING PNEUMATIC THERMOSTATS ON
SPECIAL TEST BOARD IN THE STEAMFITTING SHOP



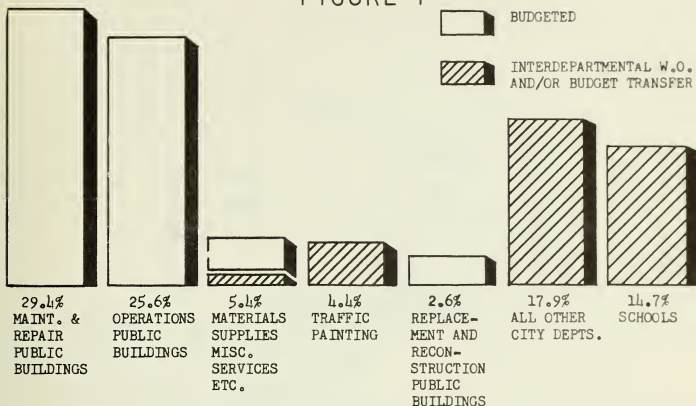
INSTALLING PRESSURE REDUCING STATION
PELTON JUNIOR HIGH SCHOOL



INSTALLATION OF DIALYSIS UNIT IN "KIDNEY ROOM"
SAN FRANCISCO GENERAL HOSPITAL

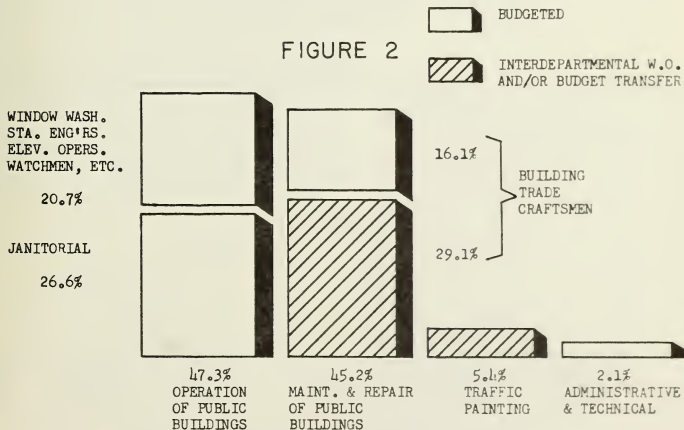
BUREAU OF BUILDING REPAIR

FIGURE 1



PROPORTIONAL EXPENDITURES OF ALL FUNDS 1966-67

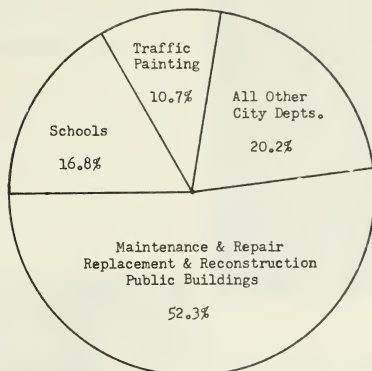
FIGURE 2



PERSONNEL ASSIGNMENT

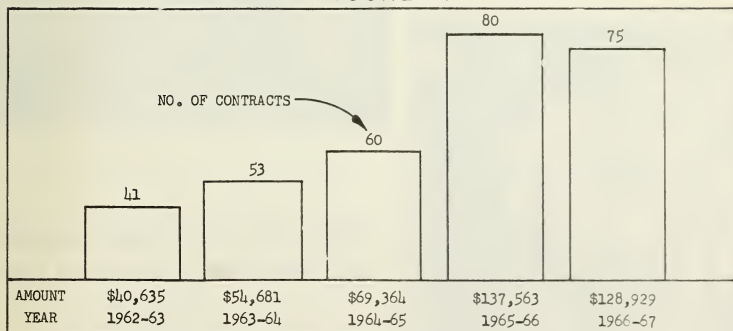
BUREAU OF BUILDING REPAIR

FIGURE 3



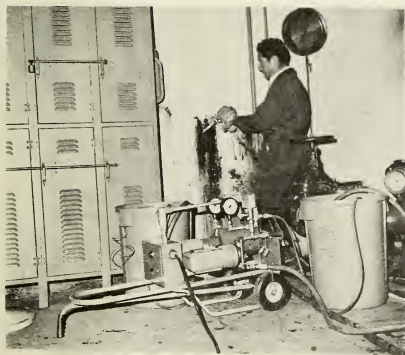
ASSIGNMENT OF BUILDING
TRADES PERSONNEL
(196 Employees)

FIGURE 4



INFORMAL CONTRACTS AWARDED 1962-63 THRU 1966-67

A black and white photograph showing a person standing on a tall, ornate metal structure, possibly a chandelier or a decorative column, in a room with large windows. The person is wearing a light-colored shirt and dark trousers. The structure is highly decorative with multiple tiers and ornate metalwork. The background shows a room with large windows and a dark interior.



REPAIRING LEAKING BASEMENT
WALLS WITH AM-9 CHEMICAL GROUT
WITH SPECIAL METERING PUMP
DESIGNED AND BUILT BY THE
BUREAU

REPAIRING SOME OF THE 1,120 STREET
NAME SIGNS REPLACED DURING THE YEAR



PUBLIC BUILDINGS UNDER THE JURISDICTION OF THE DEPARTMENT
OF PUBLIC WORKS FOR MAINTENANCE AND REPAIR

<u>Department</u>	<u>No.Of Bldgs.</u>	<u>Floor Areas Total Sq.Ft.</u>	<u>Total Budgeted Funds</u>	<u>Unit Cost Per Sq.Ft.</u>
Fire	60	614,000	\$135,219	\$0.220
Juvenile Court				
Hidden Valley Ranch	4 (1)	42,712	-	-
Log Cabin Ranch	16	32,000	17,488	0.547
Youth Guidance Center	17	202,330	62,660	0.310
Police	10 (C)	101,293	43,356	0.428
Public Health				
Emergency Hospitals	5	33,352	10,981	0.329
Hassler Hospital	18 (C)	130,000	59,037	0.454
Health Center Bldg. and Health Centers	5 6 (R)	132,105 18,987	 33,104	 0.219
Laguna Honda Hospital	25 (C)	650,000	268,156	0.413
S. F. Gen. Hospital	33 (C)	753,000	338,228	0.449
VD Center	1 (R)	6,200	2,797	0.451
Public Library	21 8 (R)	327,363 13,280	 81,173	 0.238
Public Works				
City Hall (Incl. Power Plant)	2 (C)	526,540	147,968	0.281
450-460 McAllister	2 (C)	62,910	14,920	0.237
Hall of Justice	1 (C)	580,500	85,763	0.148
Maintenance Yard	9 (C)	72,890	20,246	0.278
19th Ave. Garage	1	4,400	1,190	0.270
Sewage Treatment Plants	35	543,330	140,748	0.259
Sewage Pumping Stations	14	23,085	11,582	0.502
Real Estate				
Civic Aud./Brooks Hall	2	435,400	52,545	0.121
Sheriff				
County Jails #2 & #4	7	138,970	78,262	0.563
Social Services				
150 Otis St.	2 (C)	40,900	12,320	0.301
385 Bush St.	1	43,791	22,028	0.503
1680 Mission St.	1 (2)	40,000	-	-
S.M.R.C., Redwood City	1	10,000	3,460	0.346
Miscellaneous Departments and Activities	18 1 (R)	210,594 10,000	 37,103	 0.168
TOTALS	326	5,799,932	\$1,680,334	Avg.\$0.290

NOTES

- (1) & (2) indicate new buildings included in 1967-68 budget.
 (R) indicates buildings that are rented (a total of 16 buildings, with a combined floor area of 48,467 square feet).
 (C) indicates custodial and/or operational services also provided by Bureau of Building Repair.

\$146,480 allowed for Replacement & Reconstruction of Public Buildings is not included in any of the above sums.

JUNE 30, 1967



MAINTENANCE AND OPERATION

BUREAU OF STREET CLEANING AND PLANTING

Bernard M. Crotty, Superintendent

Major responsibilities of the Bureau of Street cleaning and Planting are: cleaning 1730 curb miles of improved streets and 110 curb miles of traffic islands and the maintenance of over 240 acres of landscaping and 8000 sidewalk trees.

Subsidiary functions assigned to the Bureau include cleaning, landscape maintenance, and physical maintenance of 17 neighborhood off-street parking lots; regular cleaning of the tile surface of the Broadway and Stockton Street vehicular and pedestrian tunnels; cleaning and inspection of 11 vehicular and pedestrian underpasses; and cleaning 195 public stairways, some of which are 2 city blocks and longer. The Bureau is also responsible for cleaning and other outdoor janitorial service at the main corporation yard at Army Street. Our garage and service yard at 2350 19th Avenue and Planting Division tool room at Sunset and Sloat Boulevards are also Bureau responsibilities. From time to time other City agencies and departments found it expedient to engage our services for their facilities, such as cleaning City College roads and the Hall of Justice parking lot. The Bureau also is responsible for weeding and rubbish removal on many acres of City-owned land and unimproved street areas.

Two years ago, under a reorganization and reassignment of responsibilities recommended as a result of a study by the Chief Administrative Officer, landscaping at three City hospitals, San Francisco General, Laguna Honda Home, and Hassler Health Home, was made a function of this Bureau.

The Department of Public Works mobile radio transmitter is under direct supervision of this Bureau. Assignment of 40 units, including transmission and reception of all public works emergencies and routine radio assignments, is handled by Public Works Radio KME 327.

All citizen activities and functions involving street litter control and street planting and landscaping are coordinated and assisted by representatives of this Bureau, primarily the Superintendent and Supervisor of the Landscape Maintenance Division. In addition, technical assistance and advice is given to home owners, property owners, architects, and landscape contractors.

San Francisco is a unique city, and not least among its distinctive assets is a street cleaning operation which provides no less than once-weekly cleaning service for every street in San Francisco and more frequent service for many, up to and including 365 days a year cleaning.

One of the things which make our cleaning more effective and efficient is the the quality of street surfaces, gutters, and curbs. Streets which are not paved represent less than 1% of the total, and this is because they are in a hilly area where the topography precludes paving.



ABANDONED AUTO
NO WHEELS - LITTER TRAP
AND DANGEROUS TO
PLAYING CHILDREN



ABANDONED
APPLIANCE



DUMPING ON CITY PROPERTY
NEAR PRIVATE PROPERTY

We do not have a system of service alleys for garage entry, garbage can storage, and delivery truck service, and this aggravates an already acute street cleaning problem. Those streets which are commonly termed or classed as alleys have paving of the same quality as most other streets.

Statistically, San Francisco has one of the most critical automobile problems in the world. Registration figures show that we have the highest vehicle registration of any city of comparable size. The following will give some idea of the enormity of our difficulties in the area of public service because of the automobile: 1966 auto registration was 372,000; population, 750,500; land area, 45.45 square miles; paved streets, 830 miles. This results in 445 vehicles per lineal mile of street and 8185 vehicles per square mile. It is a wonder, and somewhat a matter of pride, that our streets are cleaned as well as they are.

Our biggest problem from the standpoint of cleaning operations is one of parked automobiles in our older neighborhoods, where, for instance, we have apartment houses with as many as 50 to 100 units per building, with no provision for parking.

We ran a survey with the aid of the traffic engineers several years ago and found that there were many streets in some areas where cars were parked bumper-to-bumper 24 hours a day. In these districts there is an almost total absence of parking facilities, either public or private, except the street.

Alternate side parking would be out of the question when it is compared with inconvenience to residents in these densely-populated multiple-dwelling areas.

Since 1950 the Bureau has annually requested an Assistant Superintendent to aid in the administration of the myriad duties of the Bureau. Not until last year was the need for this position recognized. Recently the successful candidate, Mr. Earl Nevers, was certified and is now permanently assigned to the position.

Records of the three major functions within the Bureau may be found at the end of this section. These are street flushing, mechanical sweeping, and gang sweeping. Photos of various pieces of equipment and the use of this equipment may be seen also.

RADIO KME-327
IN STREET CLEANING OFFICE
DISPATCHER SENDING
PUBLIC WORKS VEHICLE
ON EMERGENCY CALL



ABUSE OF TRASH RECEPTACLES
FREDERICK STREET
IN FRONT OF POLYTECHNIC
HIGH SCHOOL

TYPICAL VIEW OF LIGHT
INDUSTRIAL AREA
SHOWING TYPICAL STREET
DEBRIS AND ITS ORIGIN



TABLE 1

DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET CLEANING AND PLANTING
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
ANNUAL REPORT - GANG SWEEPING - FISCAL YEAR 1966-67
(Sweeping Frequencies for Gang Route Numbered:)

Month	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
<u>1966</u>												
July	2.22	4.20	4.50	2.33	1.53	2.00	1.81	1.81	2.00	2.86	3.00	*
August	2.56	4.60	4.40	2.56	2.00	2.56	2.66	2.09	1.42	2.56	2.87	
September	2.00	4.40	4.75	2.37	1.67	2.00	2.33	1.81	1.66	2.00	2.71	
October	2.11	4.20	4.00	2.00	1.75	2.10	2.62	1.90	1.50	2.33	2.50	
November	2.08	4.40	3.16	2.00	1.46	2.11	2.00	2.00	1.61	2.00	2.60	
December	2.44	4.40	4.00	2.33	1.40	2.00	2.25	2.00	1.61	2.33	2.75	
<u>1967</u>												
January	2.33	4.40	5.20	2.75	1.35	2.33	2.50	2.00	2.00	2.34	3.00	
February	2.12	4.00	4.50	2.12	1.28	2.00	2.37	1.58	1.58	2.00	2.62	
March	2.62	4.60	5.75	3.00	1.76	2.55	2.87	2.09	2.54	2.55	3.57	
April	2.22	4.00	4.80	3.16	1.68	2.00	2.50	1.81	2.25	2.22	3.80	
May	2.33	4.40	2.40	3.00	1.57	2.44	2.75	2.00	2.50	2.44	3.66	
June	2.75	4.40	5.20	2.37	1.57	2.33	2.62	2.00	2.10	3.00	2.44	
TOTALS	27.78	52.00	52.66	29.99	19.02	26.42	29.28	23.09	22.77	28.63	35.52	

NOTE: Each gang is under supervision of a labor sub-foreman and is composed of 4 to 6 hand-sweepers with a truck crew of 1 chauffeur and 2 laborers. Length of each route varies from 66 to 270 curb miles.

* Gang #12 is sweeping gang

TABLE 2

DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET CLEANING AND PLANTING
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
ANNUAL REPORT - MOTOR SWEEPING - FISCAL YEAR 1966-67
Disposition of **15 Sweepers (Hours)

Month	Curb Miles Swept	Sweeper Loads (Number)	Sweeping	Downtime*	Total Work-Day Hours	Downtime* (Percentage)	Average Number of Sweepers In Operation
1966							
July	4,652	280	1,361	1,179	2,540	46.41	8.04
August	4,948	298	1,475	1,405	2,880	48.78	7.68
September	4,240	258	1,326	1,182	2,508	47.12	7.93
October	4,475	280	1,364	1,264	2,628	48.09	7.79
November	4,335	266	1,293	1,351	2,644	51.09	7.34
December	4,161	262	1,321	1,299	2,620	49.57	7.56
1967							
January	5,134	301	1,554	1,090	2,644	41.22	8.82
February	5,070	315	1,561	835	2,396	34.84	9.77
March	5,429	308	1,626	1,250	2,876	43.46	8.48
April	5,068	280	1,474	1,078	2,552	42.23	8.67
May	5,580	313	1,609	1,143	2,752	41.52	8.77
June	4,095	260	1,260	1,480	2,740	54.01	6.90
Totals	57,187	3,421	17,224	14,556	31,780	-	-
Averages Per Month	4,765	285	1,435	1,213	2,648	45.69	8.14

NOTE: * Downtime includes all work-day time that equipment is not engaged in actual street-sweeping, such as when undergoing repairs or held for servicing or for stand-by.

TABLE 3

DEPARTMENT OF PUBLIC WORKS
BUREAU OF STREET CLEANING AND PLANTING
CITY & COUNTY OF SAN FRANCISCO, CALIFORNIA
ANNUAL REPORT - MOTOR FLUSHING - FISCAL YEAR 1966-67
Disposition of 10 Flushers (Hours)

Month	Curb Miles Flushed	No. of Stops For Refilling Water Tanks	Flushing	Downtime*	Total Work-Day Hours	Downtime* (Percentage)	Average Number of Flushers In Operation
1966							
July	5,749	2,551	1,003	621	1,624	38.21	6.18
August	6,904	3,024	1,250	618	1,868	33.07	6.69
September	5,972	2,539	1,064	564	1,628	34.61	6.54
October	6,303	2,786	1,157	559	1,716	32.56	6.74
November	5,752	2,530	1,045	663	1,708	38.81	6.12
December	6,180	2,784	1,169	547	1,716	31.86	6.81
1967							
January	6,637	2,872	1,190	554	1,744	31.75	6.83
February	6,142	2,567	1,102	438	1,540	28.41	7.16
March	6,464	2,846	1,247	625	1,872	33.37	6.66
April	6,964	2,994	1,271	357	1,628	21.90	7.81
May	6,444	2,924	1,226	570	1,796	31.71	6.83
June	6,363	2,807	1,177	643	1,820	35.30	6.47
Totals	75,874	33,224	13,901	6,759	20,660	-	-
Averages Per Month	6,322	2,768	1,158	563	1,721	32.63	6.73

NOTE: Each flusher is operated with 1 chauffeur and 1 laborer for handling flushing controls.
* Downtime includes all work-day time that equipment is not engaged in street flushing,
such as when undergoing repairs, held for servicing or for stand-by, or when operating
on work of different nature.

MAINTENANCE AND OPERATION

BUREAU OF STREET CLEANING AND PLANTING

Landscaping and Street Planting Division

It has been the relatively short span of 12 years since the Street Planting Division was transferred to the Department of Public Works. During this time the division has progressively grown in stature. Fulfilling the need for more street landscaping and tree planting throughout the City has been recognized by our City officials and by most of our citizens as one of the most effective amenities in the enhancement of San Francisco's attractiveness.

Over \$500,000 was appropriated in the Capital Improvement Budget for landscaping during 1966-67. Most of these projects are now in the final stages of planning or have been let out to contract. The approved 1967-68 budget was reduced somewhat, but was sizeable nevertheless. More than \$280,000 has been set aside for the following projects:

Street tree planting along the Hyde Street cable car route between Greenwich and Washington Streets.

Street tree planting along the sidewalks and landscaping the center island the length of Columbus Avenue.

Landscaping the center island on Mansell Street between University and Yale Streets.

Landscaping the center islands on Van Ness Avenue between Market Street and Grove Street. This will complete the landscaping of the traffic islands.

Street tree planting along a portion of Lake Street.

All of the new landscape developments are being designed not only with an eye to beauty but also with every consideration for efficient and low cost maintenance. For instance, much thought has gone into the selection of the type of irrigation system installed in the park-like drive and mini-park along Brotherhood Way west of Junipero Serra Boulevard. The new system will be controlled by electric timers, and the lawns and shrub areas will be irrigated by pop-up sprinklers. The small park-like area at the junction of Junipero Serra and Alemany Boulevards will also have electric timers and landscaping that will be relatively easy to maintain. All of the areas will be usable as well as attractive. They can be used for picnicking, baby sitting, or just for leisure.

The street tree program is designed to enhance the streets using small decorative trees that require less maintenance than larger varieties. In most cases the trees selected are evergreen, creating less of a problem for the Street Cleaning Division of the Bureau. Much information on trees, including planting, training, and care, has been obtained from our active association with the International

Shade Tree Conference. Great emphasis has been placed on the testing and development of small evergreen trees for San Francisco. Experiments are conducted the year 'round in order to determine the climatic suitability and tolerances of these trees. It has been found that a great number of attractive shrubs can be cultivated and trained into handsome single trunk small trees. One species that the Planting Division has raised and test grown for several years is the Australian Tea Tree. This tree is attractive, evergreen, and withstands our summer winds and fogs. In time, many of our old larger trees will be replaced with a new breed of smaller ones that will be very decorative and substantially easier to maintain.

More nursery work will be necessary to develop these plants, as they are not available in commercial nurseries.

The Planting Division promoted the 8th Annual Plant a Tree Week during 1967, with excellent results. The press, radio, and television aided us by issuing news items and photos of projects and by interviews with participating persons. The interest shown by home owners and others has increased each year since the start of San Francisco's Tree Planting Program, and this year has been the busiest.

Although much research and study is carried on with the street tree program, it must be pointed out that the program represents only about 10% of the work load. Maintenance of the landscaped areas along boulevards, traffic islands, freeway interchanges, neighborhood parking lots, hospital grounds, and sewage treatment plants represents the bulk of the maintenance work.

Two years ago the north end of Sunset Boulevard between Golden Gate Park and Lawton Street was equipped with an electrically-timed irrigation system, which has provided better irrigation more economically. Funds are in the budget to replace the old irrigation system between Lawton Street and Taraval Street.

The department, in cooperation with the volunteer organization known as "Trees for the City", co-sponsored the fourth annual poster contest in the schools, using the theme, "Beautify the City with Trees". Joseph Schlitz Brewing Company, in cooperation with the Department of Public Works, hosted the fourth annual award dinner at the brewing company's Brown Bottle Room. Awards of merit were given to various individuals, firms, companies, and groups at this very congenial and pleasant gathering. As an added stimulus to the planting program the Joseph Schlitz Company conducted a slogan contest for street landscaping.

A program memorializing persons who have contributed substantially to the tree planting program has been undertaken by "Trees for the City". A number of small traffic islands have been chosen for the planting of these commemorative trees.

Many otherwise unattractive areas belonging to the City have been improved with volunteer shrub and tree planting by interested neighbors. The Planting Division has been able to supply a limited number of trees and shrubs, along with planting instructions for improving these parcels of City land.

The "Do It Yourself" tree planting program has been aided by the Department's recently-established policy of assisting an association or a neighborhood group planting project by saw cutting the sidewalk and removing the concrete flar. This new program has also been a help to the tree planting contractors.

Requests for funds for horticultural materials have relatively remained the same over the years. The Division supplements its needs by propagating some plants at the nursery and also by providing cutting material for propagation to Harry Nelson at the City College Horticultural Center. The students assist in the propagation of the plants, and the Division receives a good share of these for planting in the landscaped areas. The Planting Division has requested and received money in the budget for hiring seasonal help to handle the increasing responsibilities, rather than requesting new permanent positions. This program has proved to be very efficient and has exceeded our hopes as to value.

The Street Planting Advisory Committee are to be commended for their hard work and diligence during the past year on the Capital Improvement projects, as well as advising on other matters.

All in all, the City is becoming more attractive and healthier because of the accelerated program of landscaping and tree planting.



STUDENTS AND MEMBERS OF THE FACULTY OF GRANT SCHOOL IN COOPERATION WITH THE PLANTING DIVISION PLANT A VARIETY OF TREES AND SHRUBS ON BAKER STREET



AN INDIAN LAUREL ALONG
WITH COLORFUL LILY OF THE NILE
ENHANCE A SMALL TRAFFIC ISLAND
ON MONTGOMERY STREET

NEIGHBORS ON POTRERO HILL
IN COOPERATION WITH THE
PLANTING DIVISION
PLANT A TRAFFIC ISLAND
ON CAROLINA STREET



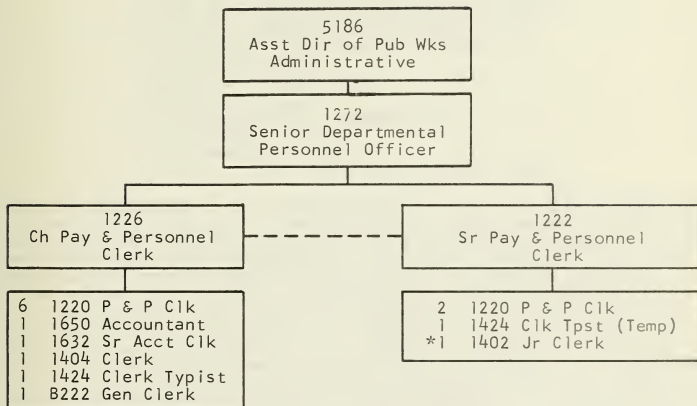
A SOUTHERN MAGNOLIA
ALONG WITH DWARF ROSE
BUSHES ENHANCE A SMALL
TRAFFIC ISLAND IN THE
NORTH BEACH AREA

Ordinarily, a Departmental Annual Report is properly and correctly used to inform officials and residents of a city what has been accomplished by an agency of City Government during the past year.

Under other circumstances no personal statements are allowed, and I am somewhat reluctant to impose one here; however, a most unusual and tragic personal experience was visited upon me recently, in my eighteenth year of employment with the City and County of San Francisco. I wish first to dedicate this year's Annual Report to my wife, Pauline, and my four children, Kathryn, John, Julia, and Margaret. I wish also to express my appreciation to Mr. Myron Tatarian, Director of the Department of Public Works, and to Mr. Arvid Ekenberg, Assistant Director. Most important, I am taking this opportunity to express my lasting and most grateful appreciation to each fellow City employee who aided and comforted me during my bereavement. I have been associated with men and women on the lowest and highest plateaus of San Francisco City Government, and it is an understatement to say that nowhere could one have found more understanding and affection.

To each of my co-workers in every department I also dedicate this Annual Report.

ORGANIZATION CHART
BUREAU OF PERSONNEL ADMINISTRATION



*Position in General Office budget;
responsibility for assignment only

BUREAU OF PERSONNEL ADMINISTRATION

Albert C. Ambrose, Senior Departmental Personnel Officer

On July 1, 1966 the Department formally created the Bureau of Personnel Administration, headed by the Senior Departmental Personnel Officer, Mr. Albert C. Ambrose, whose office is in Room 260, City Hall. Most of the Bureau's employees are located in Room 253, City Hall. A listing of the Bureau's personnel is as follows:

- 1 1272 Sr. Departmental Personnel Officer
- 1 1226 Chief Payroll and Personnel Clerk
- 1 1222 Sr. Payroll and Personnel Clerk
- 8 1220 Payroll and Personnel Clerk
- 1 1650 Accountant
- 1 1632 Sr. Account Clerk
- 1 1424 Clerk Typist
- 1 1424 Clerk Typist (temporary)
- 1 1404 Clerk
- 1 B222 General Clerk
- 1 1402 Jr. Clerk (see Organization Chart)

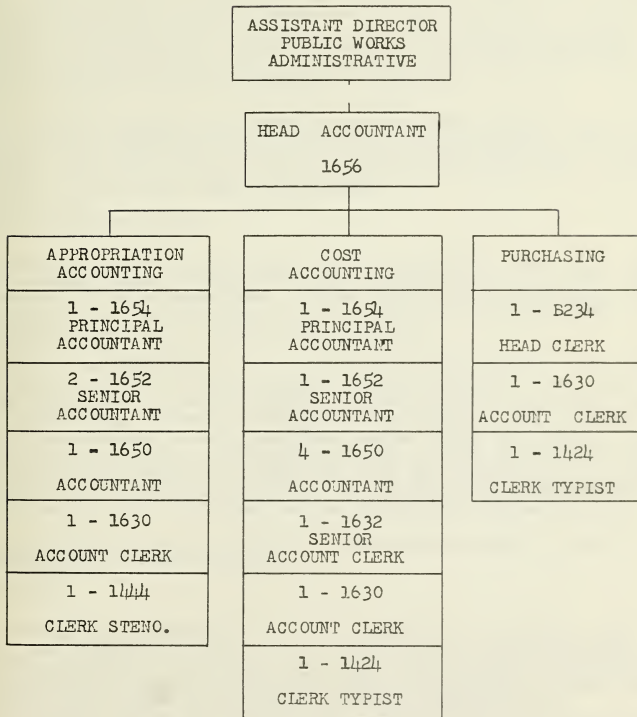
During the fiscal year, the Bureau prepared and processed a total of 1669 time rolls, involving an expenditure of approximately \$16,358,836. Included in this payroll expenditure is a substantial amount for temporary employees, plus supplemental disability payments. There was a total of 297 requisitions for permanent Civil Service employees to fill vacancies due to deaths, resignations, transfers, retirements, etc. Additionally, there were 665 requisitions for temporary Civil Service employment due to vacation, sick leave, personal leave, reclassification, replacements, etc. However, because of difficulty in recruiting Civil Service employments, it was necessary to employ 997 non-Civil Service employees for these authorized positions. The inter-relationship of personnel records to the preparation of these payrolls necessitated 3695 reports of new cases of illness to the Department physician to verify legitimacy of sick pay as required by Ordinance. There were also 202 accident reports filed, with the necessary follow-up procedure required, which are not included in the reports to the Department physician.

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ACCOUNTS

ORGANIZATION CHART

JUNE 30, 1967



TOTAL PERSONNEL 19

BUREAU OF ACCOUNTS

J. Iwamoto, Head Accountant

FUNCTIONS AND ORGANIZATION

The operating functions of the Bureau embrace control of purchase order requisitions, sub-storeroom and inventories; automotive expenditures; work order job costs and invoicing; side sewer job deposits and refund accounts; Federal, State and other trust funds; State gasoline tax subventions and bond fund accounts; capital improvement accounts for the general fund and Recreation and Park Department Fund; the cash revolving fund; the material stores revolving fund; and budget preparation and controlling accounts.

This Bureau is organized as three Divisions under the Head Accountant. They are Appropriation Accounting, Cost Accounting, and Purchasing. The Bureau maintains an office at 2323 Army Street to serve the Maintenance Yard bureaus, and an office at 450 McAllister Street, Room 502, to serve the City Hall bureaus.

APPROPRIATION ACCOUNTING

This Division maintains accounts showing allowances, reserves, allotments, expenditures, encumbrances, and balances, for all funds under the control of this Department. These accounts form the basis of controlling all transactions to assure that funds are expended for the purpose for which they were appropriated.

In addition to maintaining all of the operating accounts, this Division handles the fiscal processing of formal contracts covering street improvements, sewers, sewage treatment plants, schools, hospitals, firehouses, recreation and park improvements, and numerous capital projects for other City departments. When projects are completed from the Special Gas Tax Street Improvement Fund, final financial reports are prepared by this Division and forwarded to the State of California, Department of Public Works, Division of Highways, in accordance with the provisions of the Streets and Highways Code.

The preparation and consolidation of the annual budget is also a responsibility of this Division.

PURCHASING

This Division is responsible for the supplying of equipment, materials, and supplies for the varied activities of this Department, the sub-storeroom, and the material yard. During fiscal year 1966-67, this Division processed 6,603 requisitions for purchase orders and/or revolving fund orders in the total amount of approximately \$1,752,820.25, involving 33,015 items. In addition, 6,911 delivery orders involving 27,644 items, 11,329 storeroom tags involving the delivery of 33,987 items, and 84 requisitions on the storekeeper involving 1,260 items were issued.

DEPARTMENT BUDGET

<u>Bureau</u>	<u>Allowances</u>		<u>Expenditures</u>	
	<u>1965-66</u>	<u>1966-67</u>	<u>1965-66</u>	<u>1966-67</u>
<u>General Fund</u>				
Accounts	223,028	124,784	218,429	120,181
Architecture	99,447	126,032	91,150	121,857
Building Inspection	1,218,462	1,319,365	1,206,021	1,266,392
Building Repair	3,718,099	3,628,848	3,497,314	3,381,037
Traffic Painting	261,691	276,345	250,666	257,938
Central Permit	75,709	79,130	73,748	72,300
Engineering	919,909	948,045	873,682	952,601
General Office	757,994	865,902	629,397	777,086
Gen. Office Impvmts.	3,433,021	2,559,741	2,210,088	2,090,092
Personnel Administra.		80,923		76,650
Sewage Pumpg. Stas.	175,371	196,418	174,203	195,861
Sewage Trtmt. Plants	1,384,665	1,543,347	1,341,484	1,512,718
Sewer Repair	1,425,254	1,432,957	1,522,908	1,447,570
Street Cleaning	3,253,779	3,297,374	3,054,200	3,258,465
<u>Special Gas Tax</u>				
<u>Street Imprvt. Fund</u>				
General Maintenance	1,368,718	1,634,904	1,368,431	1,521,659
Construction	2,194,800	3,093,500	1,608,958	1,612,293
Bridges, Tunnels, and Underpasses	236,157		216,993	
1.04 Cent Funds	1,759,600	3,490,800	360,656	302,506
<u>Road Fund</u>				
Street Repair	2,146,142	2,473,111	2,062,560	2,348,876
Select Sys. Constr.	649,600	615,000	2,781	33,908
Traffic Engineering	1,073,710	1,162,950	1,016,276	1,108,401
General Maintenance	1,009,840	795,772	702,183	952,036
Construction	1,492,034	3,660,412	702,124	1,319,558
Street Planting	294,601	335,966	286,879	325,429
Street Pltg. Impvts.			38,042	4,402
1.04 Ct. Matchg. Fds.	753,000	1,116,500	529,517	306,284
TOTAL	29,924,631	34,858,126	24,038,690	25,366,100

Expenditures for capital improvements may not necessarily match allowances for any given year, since allowances may be forwarded from year to year until the project is completed.

WORK ORDERS TO DEPARTMENT

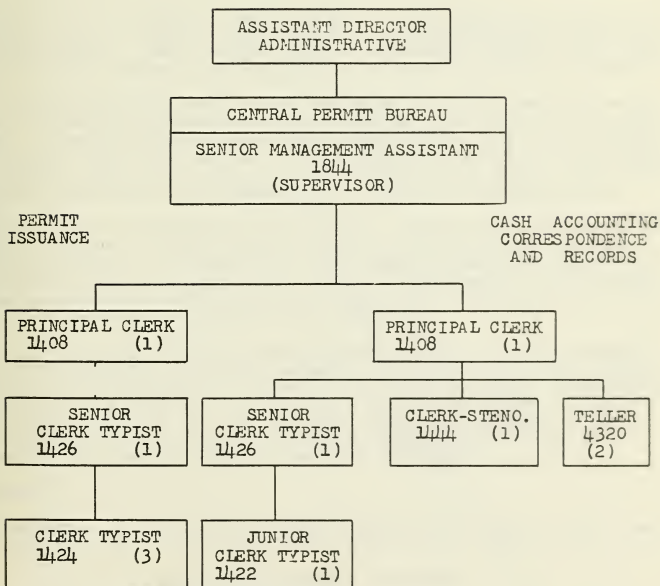
Fiscal Year 1966-67

<u>Bureau</u>	<u>Number of Cost Accounts</u>	<u>Total Allowance</u>
Architecture	290	\$660,692.00
Building Inspection	2	33,600.00
Building Repair	546	1,610,374.20
Engineering	512	2,397,895.00
General Office (Contracts)	82	5,827,381.92
TOTAL	1,432	\$10,529,943.12

OPERATING BUDGET OF BUREAU

<u>Purpose</u>	<u>Allowances</u>		<u>Expenditures</u>	
	<u>1965-66</u>	<u>1966-67</u>	<u>1965-66</u>	<u>1966-67</u>
Permanent Salaries	196,717	107,060	192,611	104,059
Overtime	900	450	900	449
Holiday Pay	651	611	595	569
Contractual Services	1,548	2,128	1,495	619
Materials and Supplies	2,540	1,954	2,366	1,949
Equipment	950	1,115	926	1,115
Services of Other				
Departments	7,323	7,966	7,137	7,921
Departmental				
Revolving Fund		3,500		3,500
E.D.P. - Temporary Salaries	12,399		12,399	
TOTAL	223,028	124,784	218,429	120,181

DEPARTMENT OF PUBLIC WORKS
CENTRAL PERMIT BUREAU
ORGANIZATION CHART



CENTRAL PERMIT BUREAU

Gilbert H. Boreman, Senior Management Assistant

FUNCTIONS

The principal function of the Central Permit Bureau is the issuance of all permits under the jurisdiction of the Department of Public Works and the collection of appropriate permit fees and deposits. The Bureau issues over thirty different types of permits, covering every aspect of the erection, alteration, demolition, and moving of buildings; permits for signs and billboards; permits for excavations in or use of streets and sidewalks; and all plumbing, electrical, and related permits.

The staff of the Central Permit Bureau receives applications for the various types of permits, and routes them to appropriate agencies for processing. When the applications have been approved, the staff collects the necessary fees and deposits, and issues the permits.

The Central Permit Bureau is the custodian of public records relevant to permits issued by the Department of Public Works and of all plans and specifications approved in conjunction with those permits. The records date back to the 1906 earthquake, and are of assistance to property owners as well as to governmental and private activities that are concerned with property use, status, and conservation.

Another service performed by this Bureau involves the assignment of street addresses to new buildings and the correction of improper existing numbers. The official house number records maintained by the Bureau constitute a valuable source of information for persons concerned with the verification of addresses or the location of construction projects in the City and County.

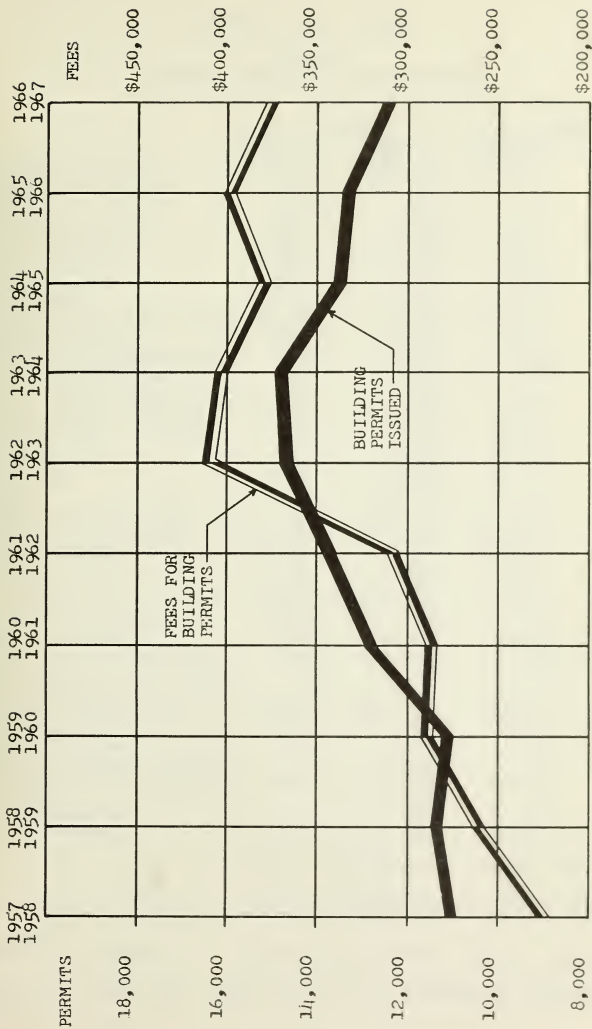
It is the function of the Central Permit Bureau to receive payment for bills covering claims for damages to property under the jurisdiction of the Department of Public Works and for costs in excess of deposits in the installation of side sewers. The money collected from these bills, as well as all other monetary receipts of the Department of Public Works, is cleared through this Bureau for deposit in the proper funds in the City Treasury.

PERSONNEL

The personnel of the Central Permit Bureau as of June 30, 1967 was as follows:

- 1 Senior Management Assistant
- 2 Principal Clerks
- 2 Senior Clerk Typists
- 1 Clerk Stenographer
- 2 Tellers
- 3 Clerk Typists
- 1 Junior Clerk Typist

FISCAL YEAR ENDING



CORRELATION -- BUILDING PERMITS AND FEES

CENTRAL PERMIT BUREAU

TABLE I
PERMITS ISSUED AND FEES RECEIVED

	1965-66		1966-67	
	Permits	Fees	Permits	Fees
Buildings	13,336	\$398,546	12,453	\$374,789
Filing Fee Receipts	7,075	(above)		
Billboard	68	124	71	15
Demolition	431	4,500	344	4,550
Boiler Installation	192	1,402	175	1,149
Boiler Inspection	833	6,050	869	6,145
Street Space*	1,538	133,806	1,632	156,905
House Numbers	608	2,320	346	1,760
House Moving	59	1,180	45	900
Excavations (Pub.Util.etc.)	12,310	24,620	15,978	31,956
Excavations (Other)*	674	3,656	481	6,269
Flue Contr. Registrations	95	1,900	78	1,560
Flues - New Buildings	41	94	75	39
Flues - Old Buildings	137	487	113	478
Flues-New Bldgs.-Coupons	2,475	1,988	675	675
Flues-Old Bldgs.-Coupons	480	1,146	280	700
Posting Notices	566	1,431	293	795
Flower Markets	49	1,596	47	1,584
Advertising	13	1,957	7	1,270
Surveys	23	15,100	17	15,535
Engineering Inspections	87	27,710	63	51,693
Electrical Inspections	12,420	264,351	10,556	253,044
Sign Inspections	2,533	6,245	2,479	5,374
Electrical Sales	2,133	30,558	2,526	32,188
Plant Owner's Registration	10	120	80	960
Plan Checking	7,326	148,800	5,862	165,272
Architect's Investigation	64	960	46	690
Garage Door Coupons	950	2,850	700	1,800
Hearing for Code Variances	26	260	34	340
" for Substitute Materials	8	1,200	10	1,500
Plumbing Inspections & Gas				
Appliance Inspections	20,933	137,250	13,634	104,330
Journeyman Plumber's Lic.	780	1,560	791	1,582
Gas Appliance Dealer	57	570	55	550
Residential Inspec. Reports	9	850	2	140
Residential Record Reports	5,907	29,535	4,488	22,440
Dump Permits	7	475	6	150
Blasting Permits	3	36	8	96
Sidewalk Permits	210	1,661	1,240	10,376
TOTAL	94,466	\$1,256,894	76,559	\$1,259,599
TOTAL, TABLES II AND III	2,447	10,875,995	2,795	9,709,056
GRAND TOTAL, PERMITS AND REVENUE	96,913	\$12,132,889	79,354	\$10,968,655

* Permits and Fees Only. See Table II for Refundable Deposits.

CENTRAL PERMIT BUREAU

TABLE II
MISCELLANEOUS DEPOSITS

	<u>1965-66</u>		<u>1966-67</u>	
	<u>Permits</u>	<u>Deposits</u>	<u>Permits</u>	<u>Deposits</u>
REFUNDABLE DEPOSITS				
Street Space	*	\$24,060	*	\$18,240
Sub-Sidewalk	36	57,909	23	29,710
Deposit on Plans	1,816	94,900	2,291	99,565
Excavations	*	1,469	*	1,293
TOTAL	1,852	\$181,213	2,314	\$148,808
PARTIALLY REFUNDABLE DEPOSITS				
Side Sewers	467	340,549	313	202,175
Excess Costs	43	3,728	41	6,096
Amount Refunded		141,635		82,007
New Revenue to be Applied to Installation Costs		202,642		126,264
AGENCY DEPOSITS				
Street Improvement Bonds	85	14,941	127	24,288
TOTAL MISCEL. DEPOSITS	2,447	\$540,431	2,795	\$381,367

* Street space and excavations require both a fee and a deposit.
Amounts shown are deposits only.

TABLE III
MISCELLANEOUS REVENUE

	<u>1965-66</u>	<u>1966-67</u>
General Fund	\$566,289	\$1,368,180
Road Fund	3,544,935	3,572,615
Highway Trust Fund	23,355	16,766
Special Gas Tax -		
Street Improvement Fund	6,049,141	4,360,719
Refundable Deposit -		
Side Sewer 912.3 Fund	1,165	-
1948 Sewage Treatment 810 Fund	12,744	-
1954 Sewer 812 Fund	67,535	-
1960 Sewer 824 Fund	6,400	-
Palace of Fine Arts Trust Fund	64,000	9,409
TOTAL MISCEL. REVENUE	\$10,335,564	\$9,327,689

CENTRAL PERMIT BUREAU

TABLE IV
STATEMENT OF CONDITION
SPECIAL FUNDS AS OF JUNE 30, 1967

	<u>Balance</u> <u>June 30, 1966</u>	<u>Deposits</u> <u>1966-67</u>	<u>Refunds</u> <u>1966-67</u>	<u>Balance</u> <u>June 30, 1967</u>
Spec. Permit Fund (St. Space and Sub- sidewalk Deposits)	\$234,445	\$47,950	\$29,906	\$252,489
Street Improvt. Fund (Payments of Street Improv't. Bonds)	465	-	-	465
Excavation Fund	2,584	1,292	569	3,307
Deposits on Plans	20,306	99,565	96,615	23,256

APPENDIX I
BUREAU OF ENGINEERING CURRENT
CONTRACT DATA SUMMARY
SHOWING ALL CONTRACT WORK
AWARDED OR UNDERWAY
JULY 1, 1966 - JUNE 30, 1967

TABLE	TYPE OF CONSTRUCTION	NO.	CONTRACTS AWARDED		AMOUNT EXPENDED
				Aggregate Value	FISCAL YEAR 1966 - 1967
A	Major Thoroughfares	2	\$	239,499.06	\$ 352,852.37
B-1	Streets - Private Contracts	8		209,800.00	200,920.00
B-2	Streets - Assessment Proceedings	10		458,867.02	374,243.45
B-3	Streets - Public Contract City Pay	11		599,961.44	541,803.20
C	Traffic Signals and Channelization	6		347,452.62	207,042.27
D-1	Sewers - Vitrified Clay and Concrete	15		2,185,715.49	1,473,355.95
D-2	Sewers - Concrete Monolithic	1		260,613.00	828,760.94
E	Recreation - Park	16		725,559.03	768,340.85
F	Miscellaneous	25		528,768.01	1,041,057.31
G	Informal and Emergency	26		116,669.37	75,194.37
TOTALS		120	\$	5,672,905.04	\$ 5,863,570.71

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966 - 1967 A - MAJOR THOROUGHFARES

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Redevelopment Area E-1 Streets Contract "D" Street Widening Fay Impr. Co.	6-8-66	5-4-67	206,650.41	206,650.41	SRd MS
Redevelopment Area E-1 Streets Contract "E" O.C. Jones & Sons	10-21-66	3-29-67	75,091.96	75,091.96	SRd MS
Burnett Ave. Extension Construction Street B. Fontana & Sons, Inc.	10-28-66	45%	164,407.10	71,100.00	SRd
TOTAL AWARDED AND EXPENDED DURING FISCAL YEAR			\$ 239,499.06	\$ 352,852.37	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966-1967 B-1 STREETS - PRIVATE CONTRACTS

<u>STREET OR SUBDIVISION AND CONTRACTOR</u>	<u>IMPROVEMENT</u>	<u>AWARDED</u>	<u>COMPLETED</u>	<u>CONTRACT AMOUNT</u>
14th Ave. - 100' to 400' N. Rivera St. A. Malerbi Sand	Gr	8-14-59		\$ 5,000.00
Mt. Sutro Woods - Subdivision No. 1 Sutro Development Co.	S	12-2-64	60%	6,000.00
Myra Glen Subdivision Tuck Investment Co.	S	12-16-64	7-21-67	15,000.00
Myra Glen Subdivision The Lowrie Paving Co., Inc.	S-C-P-SW	3-24-65	7-21-67	107,000.00
Roemer Way Subdivision B. R. Homes, Inc.		10-20-65	8-18-65	20,000.00
Tocoloma Ave. Extension G. Glosso	S-C-P	10-27-65	99%	13,000.00
Crestmont Drive Extension Sutro Forest Development Co.	S	2-2-66	60%	5,000.00
Farnassus Ave. North - East of Hillway H. Goldman & Son	S	5-15-66	90%	3,000.00
Diamond Heights Blvd. - Berkeley Way Alvin Corporation	S	6-1-66	5-22-67	18,000.00
Mississippi N - 25th Street Pacific Pavements Co., Ltd.	C-P-S	7-20-66	1-18-67	13,800.00
Detroit St. - Joost St. S'ly J. C. Larrieq	Stair	7-29-66	2-14-67	14,000.00
Reservoir St. - Church St. to Market St. Safeway Stores	S	10-5-66	1-12-67	15,000.00

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966-1967 B-1 STREETS - PRIVATE CONTRACTS

<u>STREET OR SUBDIVISION AND CONTRACTOR</u>	<u>IMPROVEMENT</u>	<u>AWARDED</u>	<u>COMPLETED</u>	<u>CONTRACT AMOUNT</u>
Gold Mine Drive Penninsula Mast. Build.	S	10-21-66	1-19-67	\$ 1,000.00
23rd Street - Third St. to Iowa St. S.F. Industrial Park	S-C-P	10-26-66	0%	18,000.00
Nibbi Court - Blanken Ave. to Gillette Ave. Nibbi Bros.	S-C-P	10-26-66	50%	12,000.00
Sixth Street - Channel St. - 16th St. McGuire & Hester	Gr-C-P	12-7-66	3-24-67	135,000.00
Gold Mine Drive - N. of Onique Lane J. W. McClenehan	S	5-17-67	95%	1,000.00
Total Awarded During Fiscal Year				\$209,800.00
Total Value of Work Done During Fiscal Year				\$200,920.00

S = Sewers
 Gr = Grading
 C = Curbs
 P = Paving
 SW = Sidewalks

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966-1967 B-2 STREET ASSESSMENT PROCEEDINGS

STREET OR SUBDIVISION AND CONTRACTOR	IMPROVEMENT	AWARDED	COMPLETED	CONTRACT AMOUNT
Elsie Street - Virginia Ave. - Esmeralda Ave. C. W. Greer	Gr-S-C-P	4-16-65	60%	\$ 52,653.50 (44,500.00)-
27th Street - Castro St. - Noe St. R. Ganske	Gr-S-C-P	9-28-65	8-19-66	93,430.88 (57,836.69)
Anderson Street - South of Crescent Baldwin Warren	Gr-S-C-P	4-6-66	9-26-66	23,721.92 (19,121.92)
			- - - -	- - - - -
Mullens Avenue - Rutledge - Montcalm Baldwin Warren	S	7-6-66	1-4-67	26,858.24 (18,020.38)
Mississippi Street - North of 25th St. Pacific Pavements, Ltd.	Gr-S-D-P	7-22-66	4-3-67	10,921.10 (5,721.10)
Burnett Avenue - North of Dixie Alley The Fay Improvement Co.	Gr-S-C-P	11-2-66	60%	78,964.70 (45,465.34)
Quint Street - Oakdale Ave. - Jerrold Ave. B. Fontana Sons	Gr-S-C-P	10-19-66	65%	78,776.70 (42,164.48)
Funston Avenue - Quintara Street - Rivera St. Rivera Street - Funston Avenue - 14th Avenue B. Fontana Sons	Gr-S-C-P	10-14-66	5-31-67	81,436.29 (47,208.96)
14th Avenue - Quintara St. - Rivera St. Annuzzi Concrete Service	Gr-S-C-P	10-5-66	4-20-67	62,324.04 (39,449.22)

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966-1967 B-2 STREET ASSESSMENT PROCEEDINGS

<u>STREET OR SUBDIVISION AND CONTRACTOR</u>	<u>IMPROVEMENT</u>	<u>AWARDED</u>	<u>COMPLETED</u>	<u>CONTRACT AMOUNT</u>
Army Street - Vicinity Maryland St. O.C. Jones & Son	Gr-S-C-P	1-27-67	50%	\$29,256.45 (16,612.72)
Newcomb Avenue - Quint St. to Rankin St. O.C. Jones & Son	Gr-S-C-P	3-1-67	35%	27,546.70 (0)
Madison Street and Pioche St. - Valmar Terrace - Gambier St. O.C. Jones & Son	Gr-S-C-P	3-15-67	50%	39,782.50 (26,835.75)
Van Dyke Avenue - Griffith St. to Hawes St. Pacific Pavements, Ltd.	S-C-P	4-5-67	55%	23,000.00 (4,922.00)
Total Awarded During Fiscal Year				\$458,867.02
Total Value of Work Done During Fiscal Year				\$374,243.45

() = Estimated or Final Amount of City Obligation.
Balance Through Assessment of Property Benefited.
City Funds From Special Road Improvement Fund.

Gr = Grading
S = Sewers
C = Curbs
P = Pavement
SW = Sidewalk

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966 - 1967 B-3 - STREETS -
PUBLIC CONTRACT
CITY PAY

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETION DATE OR %	CONTRACT AMOUNT	AMOUNT EXPENDED	FUND
Pine Street and Sansome St Reconstruction - Fay Improvement Co.	10-6-65	11-11-66	7,937.82	4,877.82	SRd
Pine St - Franklin St. To Gough St. Widening O.C. Jones	4-1-66	7-15-66	37,681.82	37,681.82	SRd MCS
Broderick St and Others Street Resurfacing Lowrie Paving Co.Inc.	4-13-66	7-11-66	73,097.22	10,997.22	SRd
Gilman Ave Reconstruc- tion - Fitch St To Hunters Point Express- way Lowrie Paving Co.Inc.	4-22-66	7-22-66	18,227.90	18,227.90	SRd
Division St. Reconstruc- tion - Kansas St. to 10th St. Lowrie Paving Co.	6-29-66	9-14-66	19,722.75	19,722.75	MS
Hayes St. Reconstruc- tion - Polk St to Van Ness Ave. Baldwin Warren Co.Inc.	8-3-66	11-12-66	33,802.63	33,802.63	SRd MS
Divisadero St and Other Streets - Street Resurfacing Pacific Pavement Co. Ltd.	9-14-66	6-9- 66	149,984.73	149,984.73	SRd
Park Presidio Crossings Widen Roadway U. Piera & Son	9-28-66	12-23-66	20,668.99	20,668.99	MS
Elsie St. - Virginia St. to Esmeralda Completion of Assess- ment Impr. O.C. Jones & Son	12-21-66	72%	28,089.70	18,360.00	SRd
Divisadero St - Clay St to Washington St Pavement Reconstruc- tion Lowrie Paving Co.	1-11-67	3-30-67	16,542.13	16,542.13	SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966 - 1967 B-3 - STREETS - PUBLIC CONTRACT CITY PAY

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Marina Green Peri- meter Roadway Pavement Reconstruc- tion Kunz Paving Co.	1-11-67	70%	83,961.25	54,720.00	SRd
Hickory St - Octavia to Gough St - Recon- struction U. Peira & Son	2- 1-67	6-14-67	13,112.81	13,112.81	SRd
Sunset Blvd - Irving St to Lawton Pavement Reconstruction Lowrie Paving Co.	3-29-67	6-23-67	78,137.66	78,137.66	
Natoma St - 1st St To 2nd St - Sidewalk Narrowing Fay Improvement Co.	4-22-67	0	32,851.30	0	SRd
Franklin St & Great Highway - Resurfacing L.C. Smith Co.	5- 5-67	6-30-67	64,966.74	64,966.74	SRd
Buchanan St. Herman St. to Oak - Pavement Reconstruction Lowrie Paving Co.	5-24-67	0	67,843.50	0	SRd
TOTAL AWARDED & EXPENDED DURING FISCAL YEAR			\$ 599,961.44	\$ 541,803.20	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966 - 1967 C - TRAFFIC SIGNS & CHANNELIZATION

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Traffic Signals at Various Intersections Contract No. 7 Emsco Elect. Corp	7-1-66	1-13-67	58,201.93	58,201.93	SRd
Various Intersections Traffic Signals No. 23 Ecco Phoenix Elect Corp.	10-19-66	3- 8-67	25,345.00	25,345.00	SRd
Financial District - Various Intersections Traffic Signals Steiny & Mitchell	8- 3-66	2-17-67	81,645.34	81,645.34	SRd
Traffic Signals & Related Work Downtown Area Steinlauf Electric	2-17-67	45%	83,561.00	33,570.00	64 ST LGT BD SRd
Various Intersections Contract No. 24 Modification of Signals Emsco Electric Corp.	4- 7-67	12%	80,669.35	8,280.00	SRd
19th Ave. & Sloat Blvd. Channelization Annuzzi Conc. Service	6- 7-67	0	18,030.00	0	MCS
TOTAL AWARDED AND EXPENDED DURING FISCAL YEAR			\$ 347,452.62	\$ 207,042.27	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966 - 1967 D-1 - SEWERS - PIPE -
VITRIFIED CLAY &
CONCRETE

DESCRIPTION AND CONTRACTOR	AWARDED	COMPLETION DATE OR %	CONTRACT AMOUNT	AMOUNT EXPENDED	FUND
Southern Embarcadero Freeway R/W Army St to 18th St. Sludge Force Main Relocation Mitchell Plumbing Co.	8-25-65	1- 6-67	71,062.60	18,502.60	GEN
18 th St. Sewer - Noe St to Church St McGuire & Hester	3-23-66	7- 8-66	156,784.60	18,004.60	64SB
Filbert St - Taylor St to Jones St - Sewer Replacement McGuire & Hester	4-27-66	7- 6-66	32,104.20	3,304.20	64SB
Santa Rosa Ave Sewer Relocation For Rapid Transit Alf Burtleson Constr. Co.	5-25-66 -----	6- 9-67	174,295.85 -----	174,295.85	(BART)
S.E. Sewage Treatment Plant - Outfall Extension Mitchell Plumb. Co.	8- 3-66	80%	335,334.00	291,150.00	54SB 60SB
McAllister St - Van Ness to Leavenworth St - Sewer Replacement Mitchell Plumb. Co.	9-28-66	6- 9-67	104,792.50	104,792.50	64SB
Cayuga Auxiliary Sewer Contract IV Fred J.Early Jr.Co.	9-28-66	2- 8-67	155,803.20	155,803.20	64SB
Moraga St - 19th Ave to 20th Ave - Relocate Sewer Fay Impr. Co.	8-31-66	2-10-67	75,009.00	75,009.00	64SB GEN
S.E. Sewage Treatment Plant - Effluent Outfall Extension Healy Tibbitts Constr. Co.	10-21-66	98%	457,767.00	409,230.00	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966 - 1967 D-1 - SEWERS - PIPE-VITRIFIED CLAY & CONCRETE

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Utah St - 15th St to Division St - Sewer Replacement McGuire & Hester	11-30-66	6%	63,947.00	0	64SB
24th & Noe Sts - Relief Sewer Con- struction Flora Crane Service Inc.	12-28-66	54%	220,079.54	106,920.00	64SB
Union St Van Ness Ave to Franklin St. - Sewer Replacement R.B. McNair & Sons	1-25-67	5-22-67	35,744.00	35,794.00	64SB
Palace of Fine Arts Modify Sewage Collec- tion Facilities Bepco, Inc.	1-25-67	90%	10,632.00	8,820.00	64SB
Sacramento St. Gough St. to Polk St Sewer Replacement McGuire & Hester	2-17-67	58%	103,126.00	53,550.00	64SB
S.E.S.T. Plant Outfall Ext. Islaid Creek Crossing - Channel Crossing Duncanson Harrelson	4-12-67	0	483,050.00	0	60SB 64SB
California St - Walnut St to Presidio Ave Sewer Replacement Bepco, Inc.	4- 5-67	80%	39,706.00	0	64SB
Walnut St. Reconstruc- tion - Sewer Replace- ment Lowrie Paving Co.	4-12-67	95%	20,635.00	18,180.00	64SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966 - 1967 D-1 - SEWERS - PIPE - VITRIFIED CLAY & CONCRETE

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Taylor St - Beach to Jefferson Sts - Sewer Replacement R.B.McNair & Sons	6-14-67	0	37,684.75	0	64SB
Washington St - Sewer Replacement and Pave Reconstr Fay Impr. Co.	5-10-67	0	42,355.50	0	SRd 64SB
TOTAL AWARDED AND EXPENDED DURING FISCAL YEAR			\$ 2,185,715.49	\$1,473,355.95	

APPENDIX I

BUREAU OF ENGINEERING CONTRACTS 1966 - 1967 D-2 SEWERS CONCRETE MONOLITHIC

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Cayuga Auxiliary Sewer Contract No. 3 Construction M & K Corporation	10-27-65	10-14-66	297,397.74	139,537.74	60SB
North Point Sewer Relocation At Montgomery St. - Rapid Transit Station Walter Lenkeit	1- 5-66	60%	823,335.00	360,540.00	GEN (BART)
6th St Sewer - Channel St to 16th St & 6th St to 7th St McGuire & Hester	5-13-66 - - - -	10-29-66	328,683.20 - - - - -	328,683.20	64SB
Bancroft Griffith - Contract I Interceptor Sewers McGuire & Hester	6-21-67	0%	260,613.00	0	64SB
TOTAL AWARDED AND EXPENDED DURING FISCAL YEAR			\$ 260,613.00	\$ 828,760.94	

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967 E - RECREATION & PARK

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Golden Gate Park - Strybing Arboretum Phase II Development Watkins & Sibbald, Inc.	11-17-65	7- 8-66	149,944.00	15,664.00	GEN
Sunnyside Playground - Grading Drainage & Retaining Wall Adam Arras & Son	11-26-65	10-14-66	196,564.42	64,444.42	GEN
Marina Small Craft Harbor Water & Electrical Systems De Narde Constr.Co.	12- 8-65	4-27-67	138,078.74	34,487.94	GEN
Marina Small Craft Harbor Extension Harbor Masters Bldg. De Narde Constr. Co.	12-17-65	6- 5-67	36,124.53	36,124.53	GEN
Sutro Heights Park Gunite West Slope Johnson Western Co.	3-18-66	9- 5-66	29,109.46	29,109.46	GEN
Storeyland Childrens Zoo Paving Drainage Fencing Kunz Paving Co.	3-30-66	8-12-66	9,449.00	9,449.00	GEN
Asphalt Concrete Resurfacing Golden Gate Park - Resurface Roads Lowrie Paving Co.	3-23-66	8- 3-66	103,903.02	58,633.02	GEN
Golden Gate Park Conservatory Dome Reconstruction Leon Carlen	5- 6-66	8-18-66	17,596.27	17,596.27	GEN
Marina Small Craft Harbor Construction Parking Area Fay Impr. Co.	5- 6-66	10-28-66	76,723.00	65,743.00	GEN
Bernal Heights Playground Reconstruction Retaining Wall De Narde Constr. Co.	5- 6-66	10- 6-66	13,643.98	13,643.98	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967 E - RECREATION & PARK

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Great Highway Fleishhacker Pool - Concrete & Wood Fence Thornburgh Constr.Co.	5- 6-66	9-16-66	10,300.00	8,770.00	GEN
S.F. Zoological Gardens Repair Chain Link Fencing Thornburgh Constr.Co.	5- 6-66	9-16-66	7,777.00	7,777.00	GEN
Lake Merced - Replace Fishing Floats & Gangways De Narde Constr. Co.	6-24-66 - - - - -	1- 3-67	10,651.00 - - - - -	10,651.00	GEN
Spreckel Lake Golden Gate Park - Erosion Control V.C. Crosby	10-26-66	3-13-67	31,022.10	31,022.00	GEN
Storeyland Childrens Zoo - Monkey Island Exhibit Kenneth K. Lind	11-30-66	54%	22,876.00	11,160.00	GEN
Raymond S. Kimbell Recreation Area Landscaping - Fencing Watkins & Sibbald	11-30-66	6-23-67	90,699.40	90,699.40	GEN
African Scene S.F.Zoo Construction Crown Development Co.	12-30-66	84%	160,076.00	120,600.00	GEN
Lincoln Park Golf Course Irrigation System Extension J. & E. Constr. Co.	12-30-66	82%	48,082.00	36,720.00	GEN
Sharps Park Golf Course Arch Culvert & Dredging Sorenson & Marsh	1- 4-67	5-31-67	10,563.15	10,563.15	GEN
Chain Link Fencing Various Locations Construction Anchor Post Products	1- 8-67	6-23-67	8,348.00	8,348.00	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967 E - RECREATION & PARK

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARDED</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
S.F. Zoo Storeyland Childrens Zoo Service Buildings Col Best Builders	3- 1-67	58%	62,985.00	33,300.00	GEN
S.F. Zoological Gardens New Aviary H.E. Rahlman Co.	3- 3-67	70%	10,643.00	6,600.00	GEN
Marina Small Craft Harbor - Security Gates & Float Tenders Tech. Ent. Inc.	3- 3-67	70%	21,337.00	13,230.00	GEN
Camp Mather Reconstruction Tennis Courts Malott Petersen Grundy	3-17-67	6-20-67	15,194.58	15,194.58	GEN
De Young Museum - G.G. Park - Landscaping & Paving Angelo C.Sposeto Constr.Co.	3-17-67	80%	12,901.20	0	GEN
S.F.Zoological Gardens Replacement Chain Link Fencing Paul Tholl Co.	4-12-67	58%	8,996.00	0	GEN
M.M. Casey Recreation Area - Landscaping Paving Irrigation Gagwin & Dorwald	5-26-67	20%	98,870.00	18,810.00	GEN
Golden Gate Park & Holly Park - Asphalt Conc. Resurfacing Lowrie Paving Co.	6- 7-67	0	62,349.60	0	GEN
Resurfacing Playground Courts at Seven Locations Malott Petersen Grundy	6- 7-67	0	60,616.00	0	GEN
TOTAL AWARDED AND EXPENDED DURING FISCAL YEAR			\$ 725,559.03	\$ 768,340.85	

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967 F - MISCELLANEOUS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARD</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Telegraph Hill - St. Lighting & Fire Alarm (Underground Dist #169) Abbett Elect Corp.	6-26-64	1-20-67	19,836.08	6,336.08	SRd
Richmond Sunset Sewage Treatment Plant Modification to Faci- lities Baldwin Warren Co.Inc.	4- 9-65	10- 3-66	763,477.88	164,077.88	60SB
North Point Collecting Sewers - Section D-9 4th St. Pump Station Alf Burtleson Constr. Co.	8- 6-65	7- 7-66	68,043.46	17,463.46	60SB
Westwood Park Area 2nd Contract Street Lighting Ets-Hokin & Galvan Elect.	8-25-65	6-20-66	90,559.02	10,819.02	64ST LB
20th St. Pump Station & Related Sewers Pumping Station Mitchell Plumbing Co.	10- 6-65	9- 7-66	59,980.00	20,920.00	GEN 60SB
Geary Expressway at Webster St Pedestrian Overpass L.R. Yegge Co.	10-15-65	6-28-67	83,659.60	17,599.60	SRd GEN
Washington - Spruce Area (Underground Dist #174) St. Lighting Emsco Elect Co	10-29-65	8-22-66	21,641.47	4,091.47	GEN
Locust St - Clay to Pacific Street Lighting Emsco Elect Corp	10-29-65	8-15-66	7,111.10	7,111.10	GEN SRd
Telegraph Hill Area (Underground Dist #189) Street Lighting Emsco Elect Corp	12-29-65	10-21-66	31,150.72	8,920.72	SRd GEN

BUREAU OF ENGINEERING CONTRACT 1966 - 1967 F - MISCELLANEOUS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARD</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Steiner - Clay Area Street Lighting R. Flatland	12-29-65	12- 9-66	7,100.00	7,100.00	SRd GEN
Stockton St Tunnel Rehabilitation Western Waterproofing Co.	1-26-66	8-10-66	88,950.15	31,710.15	MS
Great Highway - Point Lobos to Lincoln Way Street Lighting Abbett Electric Corp	1-26-66	7- 8-66	60,985.83	7,615.83	64ST LB
Broadway - Dav's St to Powell St - Street Lighting Abbett Elect Corp	2- 9-66	8-10-66	32,555.80	6,635.80	64ST LB
Southern Embarcadero Freeway - A.W.S.S. Relocation Mitchell Plumbing Co	3- 2-66	98%	267,735.00	235,980.00	GEN
Farmers Market Sales Shed Extension Stenmark Constr Co	2-23-66	8- 5-66	9,567.15	3,177.15	GEN
17th St & Ord St Traffic Island Landscaping Valley Crest Lands Co	3- 2-66	8-22-66	2,867.10	2,867.10	SRd
Fell St & Oak St Street Lighting & Related Work Steiny & Mitchell	3-16-66	9- 9-66	81,533.00	55,073.00	64ST LB GEN
Richmond Sunset Sewage Treatment Plant Standby Gas Compressor S & Q Constr Co	4-20-66	2-17-67	19,705.00	19,705.00	60SB
Freeway Overpass Reconstruct Safety Fence Anchor Fence Div.	5- 4-66	8-25-66 I-18	6,990.00	6,990.00	SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967 F - MISCELLANEOUS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARD</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Various Sewage Pumping Stations - Automatic Throttling Gate Mitchell Plumbing	5-18-66	5- 9-67	46,895.00	46,895.00	64SE
Third St Bridge Reconstruct Shock Absorber Shepard Co	6-10-66	10-14-66	5,773.00	5,773.00	SRd
Broadway Tunnel Improvements Roofing Western Roofing Ser	6- 1-66	10-17-66	6,323.00	6,323.00	MS
Portola Drive Observa- tion Area - Slide Repair Love & Haun	6-22-66	9-26-66	7,311.85	7,311.85	SRd
Civic Center Perimeter Streets - Sidewalk Trees Watkins & Sibbald	6-15-66	10-20-66	6,790.00	6,790.00	SRd
Golden Gate Heights - Underground #183 Fire Alarm & Related Work Abbett Elect Corp	6-29-66 - - - -	9-30-66	4,660.00 - - - -	4,660.00	GEN
Candlestick Park Area Streets Tree Planting Economy Garden Supply	7-27-66	1-20-67	15,278.00	15,278.00	SRd
De Young Museum Fire Alarm System Pacific Fire Extinguisher Co	9-16-66	4-28-67	30,982.00	30,982.00	GEN
Various Parking Plazas Lighting Abbett Elect Corp	9-28-66	1-11-67	5,893.42	5,893.42	GEN
27th St - Castro St to Noe St - Street Lighting R. Flatland Co.	9-28-66	1-16-67 I-19	4,794.00	4,794.00	SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967 F - MISCELLANEOUS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARD</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Dolores Heights Area #185 Street Lighting R. Flatland	9-30-66	3-24-67	6,713.31	6,713.31	SRd
San Jose Ave - Richland Ave - Western Slope Retaining Wall P & Z Co. Inc.	9-14-66	1-13-67	72,338.21	72,338.21	MCS SRd
Lincoln Way - 11th Ave to Funston Ave - Reconstruction of Coping Emsco of S.F.	10-21-66	95%	3,821.00	3,438.90	SRd
Civic Center Auto Parking Lot - Resurfacing Kunz Paving Co.	10- 7-66	1-31-67	5,026.00	5,026.00	GEN
Lombard St - Columbus to Kearny - Sidewalk Trees A & J Shooter, Inc.	11- 9-66	2- 7-67	8,356.20	8,356.20	SRd
Gough St - California to Broadway - Sidewalk Trees A & J Shooter, Inc.	11- 9-66	2- 7-67	7,936.20	7,936.20	SRd
Brotherhood Way Sidewalk Construction Vannucci Bros	10-28-66	1-20-67	9,158.58	9,158.58	SRd
West Portal Branch Library - Lighting Facilities & Related Work Decker Elect Co	12-28-66	3-31-67	9,463.00	9,463.00	GEN
Fourth St Sewage Pumping Sta. - Check Valve Modification Mitchell Plumb Co	1-11-67	98%	10,417.00	9,180.00	64SB
San Francisco General Hospital - Lighting - Parking Areas Electrical Constr & Sales	1-18-67	95%	11,545.00	9,900.00	GEN

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967 F - MISCELLANEOUS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARD</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Hassler Hospital Fire Sprinkler System Extension W.H. La Dew, Inc.	1-27-67	6-23-67	17,929.21	17,929.21	GEN
Market St Valencia St to Castro St - Street Lighting K & W Electric, Inc.	2- 1-67	6-16-67	55,497.79	55,497.79	SRd 64ST LTBd
Sunnydale Ave Area Street Lighting Ed Hutka Elect Co	2- 1-67	67%	65,920.00	39,870.00	64ST LTBd
Jefferson St - Hyde St to Powell St - St. Lighting & Related Work Emsco Elect Corp	3-29-67	6-30-67	6,756.28	6,756.28	SRd GEN
California St - Van Ness to Kearny - St Lighting and Related Work Ed Hutka Electric	4-21-67	0	53,535.00	0	64ST LTBd
Jamestown Ave - Pedestrian Overpass Construction Nibbi Bros	4-12-67	20%	36,777.00	7,920.00	MCS
City Hall Annex Elevator Modernization Walter Peterson Co	5-31-67	0	60,601.00	0	GEN
Gough St - California to Washington - St. Lighting & Related Work K & W Electric	4-21-67	30%	12,370.00	0	GEN SRd
S.E.S.T. Plant - Contr 2 Waste Return Piping Jack Rosen, Inc.	5- 3-67	2%	53,732.00	1,035.00	64SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967 F - MISCELLANEOUS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARD</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
S.E.S.T. Plant Automatic Samplers S & Q Constr Co	5-26-67	0	21,444.00	0	64SB
Log Cabin Ranch Addition to Sewage Treatment Plant R.W. Johnson & Son	6-14-67	0	69,000.00	0	64 Log Cabin Bd
TOTAL AWARDED AND EXPENDED DURING FISCAL YEAR			\$ 528,768.01	\$1,041,057.31	

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967

G - INFORMAL CONTRACTS AND
EMERGENCY CONTRACTS

DESCRIPTION AND CONTRACTOR	AWARD	COMPLETION DATE OR %	CONTRACT AMOUNT	AMOUNT EXPENDED	FUND
Steinhart Aquarium Mechanical & Electrical Systems Johnson Service Co.	6-22-67 - - - -	4-12-67	3,900.00 - - - -	3,900.00	GEN
Islais Creek Bridge Reconstruct Traffic Gate EmSCO Electric Co.	7-15-66	12- 2-66	3,589.00	3,589.00	SRd
Sharps Park Waterline Repair Break Lowrie Paving Co.	9-16-66	10-24-66	2,880.75	2,880.75	GEN
Clement Parking Centers 1 & 2 - Lighting I & W Electric Co.	11-30-66	3- 8-67	3,290.00	3,290.00	GEN
Diamond Heights Area Street Lighting EmSCO Electric Corp	12- 2-66	1-13-67	648.00	648.00	GEN
Various Intersections Contract 2-C Safety Lighting R. Flatland Co.	11-18-66	5- 8-67	1,395.00	1,395.00	SRd
Improvement Elsie St Emergency Repairs Pacific Pavements Co.	11- 9-66	12-30-66	4,852.10	4,852.10	SRd
Bernal Heights Playground Retaining Wall Demolition Thornburgh Constr. Co.	12-30-66	5-31-66	840.00	840.00	GEN
Bosworth St - Elk St Northerly Slide Repair Pacific Pavements	2- 1-67	3-13-67	2,771.16	2,771.16	SRd
San Jose Ave & Highland Ave - Slide Repair Pacific Pavements	2- 3-67	3-13-67	5,103.95	5,103.95	SRd
Green St East Montgomery St - Slide Repair Early Constructors, Inc.	2-10-67	3-10-67	2,435.19	2,485.19	SRd

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967 G - INFORMAL CONTRACTS AND
EMERGENCY CONTRACTS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARD</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Green St East Montgomery St - Slide Repair St. Light Abbett Elect Corp	2-10-67	3-21-67	104.81	104.81	SRd
Alemanay Blvd - Naglee to Farragut - Slide Repair Early Constructors	3- 1-67	3-15-67	8,435.94	8,435.94	SRd
Hillcrest Court - South Myra Way Street Lighting and Related Work Ecco Phoenix Elect	3- 1-67	5-15-67	1,670.00	1,670.00	SRd
Child St and Telegraph Place - Street Light & Related Work Ed Hutka, Inc.	3-24-67	95%	3,350.00	0	SRd
Elsie St - Virginia St & Esmeralda - Sewer Reconstruction O.C. Jones & Sons	3- 3-67	95%	8,861.00	0	54SB
Alemanay Blvd. - East of Trumbull Slide Repair Lowrie Paving Co.	4- 7-67	5-19-67	25,462.47	25,462.47	SRd
Selma Way - Stairway - Railing Trans Western Constr. Co	4-21-67	80%	4,200.00	0	SRd
Kearny St - South of Chestnut - Street Lighting and Related Work West Coast Elect	5- 5-67	0	770.00	0	SRd
Candlestick Park Stadium Reconstruct Hand Rail Star Iron Work	5-12-67	0%	3,646.00	0	GEN
Elsie St - Virginia St - To Esmeralda - Sewer Reconstruction O.C. Jones & Son	5-17-67	95%	6,064.00	0	1954 SB

APPENDIX I

BUREAU OF ENGINEERING CONTRACT 1966 - 1967

G - INFORMAL CONTRACTS AND
EMERGENCY CONTRACTS

<u>DESCRIPTION AND CONTRACTOR</u>	<u>AWARD</u>	<u>COMPLETION DATE OR %</u>	<u>CONTRACT AMOUNT</u>	<u>AMOUNT EXPENDED</u>	<u>FUND</u>
Van Ness Ave & Union St. Sewer Reconstruction R.B. McNair & Sons	5-24-67	6-28-67	7,110.00	,110 00	54SB
Various Intersections - Contract 23A Modification of Traffic Signals Steiny & Mitchell	5-31-67	7- 6-67	656.00	656.00	SRd
3rd St Movable Bridge Bumper Repair Shrader Iron Works	5-31-67	0%	2,484.00	0	SRd
Market St - Drumm to Davis St - Sewer Reconstruction Mitchell Plumbing Co	6-14-67	95%	10,000.00	0	GEN
North Point Sewer Relocation at Montgomery St - Pump Installation	6-16-67	95%	2,000.00	0	BART GEN
North Point Sewer Relocation at Montgomery St - Ground Water Removal	6-28-67	95%	4,000.00	0	BART GEN
TOTAL AWARDED AND EXPENDED DURING FISCAL YEAR			\$ 116,669.37	\$ 75,194.37	

APPENDIX II

BUREAU OF ARCHITECTURE CURRENT CONTRACT DATA SUMMARY Showing All Contract Work Awarded or Under Construction July 1, 1966 - June 30, 1967

Table	Type of Construction	Contracts No.	Awarded Aggregate Value	Amount Expended Fiscal Year 1966-67
A-1	New School Construction	6	\$3,863,759	\$1,216,669
A-2	Misc. Alterations - Schools	64	2,999,173	1,649,406
A-3	Acoustical Work	14	476,749	69,373
A-4	Roofing Jobs	3	6,726	6,726
A-5	Resilient Flooring	0	0	0
A-6	Int. & Ext. Painting	37	396,211	200,270
A-7	Yard Paving	4	12,977	9,642
B-1	Fire Department - New Construction	3	1,414,516	1,089,032
B-2	Fire Department - Reconstruction	2	10,774	6,026
C-1	S.F. General Hospital	19	2,113,264	467,376
C-2	Laguna Honda Hospital	4	193,817	74,000
C-3	Health Center Building	4	1,749,146	671,024
D	deYoung Museum	2	8,315	8,315
E	Youth Guidance Center	1	20,800	18,597
F	Civic Center	28	590,816	135,056
G	Hall of Justice	5	16,826	8,170
H	Miscellaneous	34	9,217,646	2,531,023
	Totals	230	\$23,091,515	\$8,160,705

On the following pages appear separate tables of current contracts for each of the types of construction listed above. The source of the funds used to finance each project is indicated in the tables according to the following:

Abbreviation Legend

Designation	Description of Fund
General	General Fund City and County
1956 School	Unified School District Bond Issue voted by citizens on November 6, 1956, \$27,000,000

District	Funds of S.F. Unified School District
Childrens' Center	S.F. Unified School District, Special Fund
1954 Hospital	Hospital Bond Issue voted by citizens on November 2, 1954, \$5,830,000
Private	Private Donation
1964 School	S.F. Unified School District Bond Issue voted November 3, 1964, in amount of \$31,464,500
1964 Bond Fund	Fire Department Bond Issue voted November 3, 1964, in amount of \$4,890,000
1964 Log Cabin Bond Fund	Bond Issue approved November 3, 1964, in amount of \$1,300,000 for a Juvenile Camp School

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA 1966-67</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
A-1 NEW SCHOOL CONSTRUCTION					
Raphael Weill School (2517) New Addition John A. Nelson, Inc.	6-4-65	2-17-67	\$331,000	\$214,802	1956 School
Diamond Heights Elem. School (2600) General Construction F.P. Lathrop Const. Co.	1-19-66	95%	974,900	769,894	1964 School
City College of S.F. (2700) Educational Services Bldg. Carl W. Olson & Son	12-28-66	20%	1,239,500	231,973	1964 School
Mission Nursery (2713) New Addition Kenneth K. Lind	2-1-67	5%	26,391	0	1964 School
Paul Revere School Annex (2850) General Construction Martineilli Const. Co. Inc.	6-7-67	0	826,200	0	1964 School
Treasure Island Elem. School (2750) General Construction Payne Construction Co.	6-30-67	0	465,768	0	School Dist Special Reserve Fund
Total Aggregate Value and Amount Expended			\$3,863,759	\$1,216,669	

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>1966-1967</u>	<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>			
A-2 MISCELLANEOUS ALTERATIONS						
Galileo High School (2591) Mission High School Stage Switchboard Replacement Elect. Const. & Sales	10-20-65	9-13-66	\$ 25,470	\$ 4,839		District
Everett Jr. High (2575) New Teachers Lunch Room Arthur W. Baum	10-13-65	2-16-66	8,211	1,915		1964 School
Aptos Jr. High (2599) Rehab. of Homemaking Facilities Nibbi Bros.	12-8-65	1-19-67	69,000	69,857		1964 School
J. Adams Adult School (2572) Genl. Rehabilitation Arntz Bros.	12-22-65	1-6-67	159,700	81,385		1964 School
Raphael Weill School (2484) Cafeteria Alterations Kenneth K. Lind	12-24-65	2-10-67	79,605	80,785		1964 School
Balboa High School (2601-R) Elec. Service & Feeder Alt. Weber Electric Co.	12-24-65	9-16-66	39,500	39,500		District
Samuel Gompers High Sch.(2573) Location of Shop Mach. Wm. McIntosh & Son	1-21-66	5-11-66	8,640	1,020		District

<u>Description & Contractor</u>	CURRENT CONTRACT DATA		1966-67	Amount Expended 1966-67	Fund
	<u>Awarded</u>	<u>Completed Date or %</u>			
A-2 MISCELLANEOUS ALTERATIONS (Contd)					
Balboa & Polytechinc (2606) Stage Switchboard Replacement Edw. Scott Elec. Co.	1-26-66	9-30-66	\$ 23,200	\$ 23,324	District
Cleveland School (2522) Gen. Rehabilitation Wm. McIntosh & Son	3-11-66	96%	237,180	236,387	1964 School
Balboa High School (2610) Alterations to Shops, Library & Music Room DeNarde Constr. Co.	3-18-66	1-6-67	173,150	175,546	1964 School
Horace Mann Jr. High (2604) Install. Acoustical Ceiling & Lighting Fix. Arthur W. Baum	4-1-66	9-2-66	40,160	39,888	District
Spring Valley School (2595) Gen. Rehabilitation DeNarde Constr. Co.	4-8-66	1-4-67	181,867	182,542	1964 School
Lowell High School (2639) Alt. of Corridor to Stairwell Doors Leon Carlen	4-13-66	10-26-66	3,189	3,189	District
Galileo High School (2623) Alterations to Shops Leon Carlen	4-20-66	12-12-66	117,700	119,099	District

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA 1966-67</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
A-2 MISCELLANEOUS ALTERATIONS (Contd)					
J. Adams Adult School (2642) Electrical Rehabilitation of Classrooms, Phase I Elec. Const & Sales Co.	4-20-66	8-30-66	\$ 7,126	\$ 7,126	MDTA Project
Galileo High School (2649) Girls Gym Window Repair and Painting Leon Carlen	5-11-66	11-1-66	12,782	14,658	District
Roosevelt Jr. High (2634) Alterations to Shops Walter Petersen & Co.	5-6-66	99%	102,188	91,969	1964 School
Everett Junior High (2609) Alterations to Shops Leon Carlen	5-11-66	1-11-67	90,915	90,915	1964 School
Balboa High School (2664) Franklin Jr. High Commodore Stockton Wire Mesh Enclosures U.S. Steel Corp.	5-20-66	97%	3,162	0	District
City College of S.F. (2667) Replacing Underground Piping Beta Mech. Contractors	5-20-66	8-31-66	19,158	19,158	District

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
A-2 MISCELLANEOUS ALTERATIONS (Contd)					
Mission High School (2669) Shower Piping in Girls Locker Room Mitchell Plumbing Co.	5-20-66	9-3-66	\$ 11,985	\$ 11,985	District
A. Lincoln High School (2651) Rehab. of Foods Lab & Counseling Rooms Mattern Const. Co.	5-20-66	10-18-66	46,965	46,965	1964 School
James Lick Junior High (2666) Alt. to Existing Band Room Nibbi Bros.	6-1-66	10-3-66	14,185	14,185	District
Diamond Heights School (2627-R) Relocation of Portable Building Moore Constr. Co.	6-1-66	9-22-66	4,960	4,960	District
City College-Cloud Hall (2673) Rehab. of Business Rooms Ernie Lowe	6-8-66	8-31-66	7,957	7,957	1964 School
Ben. Franklin, Everett (2647) & Francisco Jr. High Schools Counseling Rooms Leon Carlen	6-8-66	9-21-66	22,882	22,882	District
City College of S.F. (2546) Reloc. Portable Buildings H. E. Rahlmann Co.	6-24-66	10-31-66	24,982	25,987	District

<u>Description & Contractor</u>	CURRENT CONTRACT DATA			1966-67	
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	<u>Amount Expended 1966-67</u>	<u>Fund</u>
A-2 MISCELLANEOUS ALTERATIONS (Contd)					
Alvarado School (2690) New Security Closures H. E. Rahlmann Co.	7-7-66	11-28-66	\$ 2,583	\$ 2,583	District
Madison School (2706) Reinforcing Metal Lath, Plaster Ceilings & Install Acoustical Treatment Leon Carlen	8-5-66	9-8-66	2,238	2,238	District
Ben. Franklin Junior High (2677) Rehab. of Foods Lab Wilner Constr. Co.	8-5-66	2-10-67	34,800	35,014	1964 School
E. Robeson Taylor School (2703) Reinforce Metal Lath & Plaster Ceilings Wm. McIntosh & Son	8-5-66	9-15-66	11,280	11,280	District
Various Schools (2644) Install Electrical Convenience Outlets Elec. Const. & Sales Co.	8-17-66	1-10-67	18,791	18,791	District
Various Schools (2704) Install Electrical Convenience Outlets Elec. Const. & Sales Co.	8-31-66	1-16-67	14,510	14,510	District
Various Schools (2708) Install Electrical Convenience Outlets Pratt Electric Co.	9-7-66	1-29-67	17,972	17,972	District

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
A-2 MISCELLANEOUS ALTERATIONS (Contd)					
Daniel Webster School (2695) Food Service Addition Wm. McIntosh & Son	9-14-66	4-14-67	\$ 8,750	\$ 9,284	1964 School
City College of S.F. (2697) Computer Center Kenneth K. Lind	9-23-66	3-3-67	12,698	12,853	District
Kate Kennedy School (2611) Gen. Rehabilitation DeNarde Const. Co.	10-7-66	0	243,192	0	1964 School
J. Adams Adult School (2715) Acous. Tile Ceilings Trans-Western Const. Co.	10-7-66	1-6-67	1,980	1,980	District
Mission High School (2716) Elevator Replacement Wm. McIntosh & Son	10-21-66	0	27,444	0	District
Luther Burbank Jr. High (2707) Relocate Portable Bldgs. H. E. Rahlmann Co.	10-21-66	95%	54,288	48,370	District
J. Adams Adult School (2643) Elec. Rehab. of Classrooms Phase II Elec. Const. & Sales Co.	10-21-66	1-13-67	8,050	8,050	District
G. Washington High (2709) Alt. to Elec. Shop Wm. McIntosh & Son	11-2-66	95%	25,350	18,252	1964 School

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
A-2 MISCELLANEOUS ALTERATIONS (Contd)					
Polytechnic High (2741-R) Elevator Replacement Leon Carlen	2-17-67	0	\$ 42,346	0	District
Various Schools (2733) Relocat. Portable Bldgs. Leon Carlen	3-8-67	20%	31,950	14,826	District
Marina Junior High (2718) Rehab. Homemaking Rooms Walter Petersen & Co.	3-15-67	5%	57,980	12,869	District
Presidio Jr. High (2749) Rehab. Homemaking Facilities Kenneth K. Lind	4-12-67	0	40,410	0	District
Pacific Hts. Adult School (2693) Struct. Alts. & New Elevator Arntz Bros.	4-21-67	0	238,700	0	1964 School
Woodrow Wilson High (2748) New ROTC Rifle Range H. E. Rahlmann Co.	5-5-67	7%	39,862	2,511	District
Irving M. Scott School (2776) General Rehabilitation Leon Carlen	5-5-67	0	81,400	0	1964 School
Various Schools (2801) Boiler Replacement Northern Plumbing & Heating, Inc.	5-5-67	0	52,391	0	District

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
A-2 MISCELLANEOUS ALTERATIONS (Contd)					
Various Schools (2788) Service Counter Alts. Nibbi Bros.	5-5-67	0	7,173	0	District
Hawthorne School (2793) New Storage Room Michael Bros. Const.	5-5-67	0	6,525	0	District
Louise M. Lombard (2778) General Rehabilitation Biltwell Const. Co.	5-5-67	0	175,777	0	1964 School
A. Lincoln High School (2812) New Ceramics Workshop H. E. Rahlmann Co.	5-24-67	0	8,281	0	District
Polytechnic High School (2808) New Girls Dance Studio & Weight Lifting Room Leon Carlen	5-24-67	0	16,150	0	District
Mission High School (2772) Rehab. Chemistry Lab Leon Carlen	6-14-67	0	44,612	0	District
Presidio Jr. High (2780-R) Alts. to Electronic Shop Leon Carlen	6-14-67	0	45,000	0	District
Childrens' Centers (2822) Storage Sheds - Various Nurseries Pearson & Johnson	6-14-67	0	4,279	0	Childrens' Cente

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>		<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>		
A-2 MISCELLANEOUS ALTERATIONS (Contd)				
Hillcrest School (2771) Reloc. Portable Classrooms H. E. Rahlmann Co.	6-14-67	0	\$ 12,232	0
Samuel Gompers High School (2798) Counseling Rooms Ravano Construction	6-21-67	0	9,626	0
Geo. Washington High School (2824) Service Counter Alts. Wm. McIntosh & Son	6-21-67	0	3,657	0
City College of S.F. (2833) Replace Boiler Controls Combustion Maint. Co.	6-30-67	0	5,892	0
Various Schools (2817) Replace Boiler Controls Cornely Company	6-30-67	0	12,195	0
Mission High School (2829) Rehab. ROTC Facilities Moreau Const. Co.	6-30-67	0	42,990	0
Total Aggregate Value and Amount Expended			\$2,999,173	\$1,649,406

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
A-3 ACOUSTICAL WORK					
Polytechnic High School (2586) Install. Acoustical Treatment & Lighting Fix. Arthur W. Baum	9-22-65	5-19-66	\$ 6,977	\$ 1,202	District
Galileo High School (2655) Install. Acoustical Tile, Lighting Fix. & Misc. Work Leon Carlen	5-20-66	10-9-66	24,381	24,381	District
Madison School (2663) Install Acoustical Treatment Sono-Ceil Company	5-20-66	8-16-66	1,249	1,165	District
A. Lincoln High School (2628) Acoustical Ceilings & Lighting Fixtures Mattern Const. Co.	6-1-66	9-23-66	15,250	15,250	District
City College of S.F. (2670) Acoustical Ceilings & Lighting Fixs., Science Bldg. Arthur W. Baum	6-8-66	9-23-66	27,375	27,375	District
Portola Jr. High School (2724) Acoustical Ceilings & Light Fixtures Arthur W. Baum	11-30-66	0	49,640	0	1964 School

<u>Description & Contractor</u>	CURRENT CONTRACT DATA		1966-67	Amount Expended 1966-67	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>			
A-3 ACOUSTICAL WORK (Contd)					
Francisco Jr. High School (2692) Acoustical Ceilings & Light. Fixtures Decker Electric Co.	3-8-67	0	\$ 44,999	0	District
Jose Ortega School (2786) New Rain Gutters & Leaders Atlas Heating & Ventil.Co.Ltd.	4-12-67	0	2,746	0	District
Winfield Scott School (2762) Acoustical Ceilings & Light. Fixtures Pratt Electric Co.	5-5-67	0	38,896	0	1964 School
Mission High School (2806) Acoustical Ceilings & Light. Fixtures Decker Electric Co.	5-24-67	0	36,130	0	District
Sanchez School (2766) Acoustical Tile, Lighting Fixtures & Misc. Work Edw. W. Scott Elect.Co.Inc.	5-24-67	0	73,851	0	1964 School
E. Robeson Taylor School (2799) Acoustical Tile, Lighting Fixtures & Misc. Work Edw. W. Scott Electric Co.	5-24-67	0	35,230	0	District

<u>Description & Contractor</u>	CURRENT CONTRACT DATA			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
A-3 ACOUSTICAL WORK (Contd)					
Parkside School (2765)					
Acoustical Ceilings, Light Fixtures & Misc.					
Decker Electric Co. Inc.	5-24-67	0	\$ 68,876	0	1964 School
Everett Junior High (2773)					
Acoustical Tile, Lighting Fixtures & Misc. Work					
Pratt Electric Co.	6-21-67	0	51,149	0	District
Total Aggregate Value and Amount Expended			<u>\$476,749</u>	<u>\$ 69,373</u>	

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>1966-67 Contract Amount</u>		
A-4 ROOFING JOBS					
Patrick Henry School (2680) Roof Repairs New Art Roofing Co.	6-24-66	8-24-66	\$ 2,745	\$ 2,745.	District
Geo. Washington High (2687) Roof Repairs Sunset Roofing	6-24-66	8-26-66	1,883	1,883	District
Edison Childrens' Nursery (2732) New Roofing Howard M. Green Co.	12-14-66	3-21-67	2,098	2,098	District
Total Aggregate Value and Amount Expended			\$ 6,726	\$ 6,726	

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>1966-67</u>		<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	<u>Amount Expended 1966-67</u>		
A-6 PAINTING						
Pelton Jr. High School (2615) Int. Painting C.L. Disheroon	2-2-66	9-7-66	\$ 12,633	\$ 12,633		District
Patrick Henry School (2640) Ext. Painting Giampolini & Co.	4-13-66	9-7-66	10,800	10,800		District
Marshall School (2617-R) Int. Painting Beck Bros.	4-8-66	9-7-66	12,217	12,217		District
John Muir School (2635) Ext. Painting Beck Bros.	4-8-66	9-3-66	14,230	14,230		District
J. Adams Adult School (2631) Int. Paint., Phase I Nelson Adams Co.	4-1-66	7-21-66	5,800	5,800		MDTA Project
Madison School (2652) Partial Int. Painting Nelson-Adams Co.	4-22-66	9-26-66	3,839	3,839		District
Various Schools (2646) Ext. Painting Marco A. Vidal	4-20-66	9-7-66	12,128	12,128		District
Garfield School (2659) Ext. Painting Nelson-Adams Co.	5-6-66	9-22-66	7,428	7,428		District

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>		<u>1966-67</u>		<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	<u>Amount Expended 1966-67</u>	
A-6 PAINTING (Contd)					
Various Schools (2656) Int. & Ext. Painting Hayden G. Neal Paint.Co.	5-11-66	9-7-66	\$ 15,950	\$ 15,950	District
Presidio Jr. High (2662) Int. Painting Boys & Girls Gyms R.P. Paoli & Co.	5-11-66	9-1-66	5,062	5,062	District
Commodore Sloat School (2657) Ext. Painting Marco A. Vidal	5-20-66	9-7-66	7,685	7,685	District
J. Adams Adult School (2668) Ext. Painting & Repairs to Annex Hayden G. Neal Paint. Co.	5-25-66	9-1-66	14,390	14,390	District
City College of S.F. (2624-R) Ext. Paint.-Cloud Hall Thos. F. Kenny, Jr.	6-1-66	11-1-66	13,475	13,475	District
Various Schools (2679) Painting Game Lines Fiberised Bar & Line Co.	6-8-66	10-13-66	2,685	2,685	District
Mission High School (2675) Int. Painting R.P. Paoli & Co.	6-8-66	9-29-66	22,864	23,218	District

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>1966-67</u>		<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	<u>Amount Expended 1966-67</u>		
A-6 PAINTING (Contd)						
Presidio Junior High (2671) Int.Painting-Shop Areas R.P. Paoli & Co.	6-8-66	9-1-66	\$ 7,560	\$ 7,560		District
Candlestick Cove Sch. (2681) Ext. Plaster. & Painting Kenneth K. Lind	6-24-66	10-20-66	20,402	20,402		District
J. Adams Adult School (2632) Int. Painting-Phase II Hayden G. Neal Paint. Co.	10-19-66	2-3-67	3,283	3,283		MDTA Project
Edison & Page-Broderick Nurseries (2734) Painting Strom Painting Co.	12-7-66	4-14-67	7,485	7,485		Childrens ^m Center Fund
Mark Twain School (2735) Ext. Painting C.L. Disheroon Paint.Co.	1-11-67	0	4,621	0		District
Starr King School (2739) Ext. Painting Amity Painting Service	1-18-67	0	7,985	0		District
Alamo School (2740) Ext. Painting Strom Painting	1-18-67	0	6,650	0		District
Sanchez School (2753) Ext. Painting C.L. Disheroon Paint. Co.	3-8-67	0	7,846	0		District

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>1966-67 Contract Amount</u>		
A-6 PAINTING (Contd)					
Hillcrest School (2755) Ext. Painting C.L. Disheroon Paint. Co.	3-8-67	0	\$ 7,648	0	District
Twin Peaks School (2761) Ext. Painting John Kosta	3-8-67	0	2,440	0	District
Jose Ortega School (2775) Int. & Ext. Painting Strom Painting Co.	3-24-67	0	11,285	0	District
San Miguel School (2768) Ext. Painting W.G. Thompson Painting Co.	3-22-67	0	15,832	0	District
H. Hoover Junior High (2782) Int. Painting Giampolini & Co.	4-12-67	0	6,393	0	District
Yerba Buena Sch. Annex (2784) Int. Painting Beck Bros.	4-12-67	0	9,560	0	District
Garfield School (2791) Int. Painting Hayden G. Neal Paint. Co.	4-12-67	0	9,860	0	District
Commodore Stockton Sch. (2787) Int. Painting C.L. Disheroon Paint. Co.	4-21-67	0	9,487	0	District

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>1966-67 Contract Amount</u>		
<u>A-6 PAINTING (Contd)</u>					
J. O'Connell Voc.High (2804) Int. Painting W.G. Thompson	5-5-67	0	\$ 34,472	0	District
Mission High School (2803) Int. Painting Beck Bros.	5-5-67	0	19,694	0	District
Galileo High School (2805) Painting, Flooring & Misc. Work Trans-Western Const. Co.	5-5-67	0	19,442	0	District
Geo. Washington High (2795) Int. Painting & Wall Covering A. Quandt & Sons, Inc.	5-5-67	0	5,700	0	District
Geo. Washington High (2796) Vitreous Wall Coating in Stairways J. Wm. Sorensen, Inc.	5-5-67	0	12,460	0	District
Various Schools (2819) Painting Game Lines Fiberised Bar & Line Co.	6-30-67	0	4,920	0	District
Total Aggregate Value and Amount Expended			\$396,211	\$200,270	

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
A-7 YARD PAVING					
Various Schools (2678) Resurfacing Yard Paving & Painting Game Lines Bay Slurry-Seal Co.	6-8-66	11-1-66	\$ 4,116	\$ 4,116	District
Gough-Page, Mission (2683) & Argonne Childrens' Centers - Yard Resurfac. Bay Slurry-Seal Co.	6-8-66	11-1-66	1,797	1,797	Childrens' Center Fund
Ben. Franklin & Candlestick Cove Schools - Resurfac. Yard Paving & Paint Game Lines Bay Slurry-Seal Co.	6-8-66	11-1-66	3,729	3,729	District
Bessie Carmichael & (2821) Ortega Schools Yard Paving & Game Lines Malott & Peterson-Grundy	6-21-67	0	3,335	0	District
Total Aggregate Value and Amount Expended			\$ 12,977	\$ 9,642	

<u>Description & Contractor</u>	CURRENT CONTRACT DATA			<u>1966-67</u>	<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>			
B-1 FIRE DEPT. NEW CONSTRUCTION						
Headquarters Bldg. (2525) Gen. Construction M & K Corporation	12-8-65	3-25-67	\$948,500		\$754,191	1964 Bond Fund
Engine Co. No. 28 (2619) Gen.Const.New Firehouse Leon Carlen	4-13-66	99%	209,549		191,217	1964 Bond Fund
Engine Co. No. 7 (2620) Gen. Construction Stenmark Const. Co.	8-12-66	50%	256,467		143,624	1964 Bond Fund
Total Aggregate Value and Amount Expended			\$1,414,516		\$1,089,032	

<u>Description & Contractor</u>	CURRENT CONTRACT DATA			<u>1966-67</u>	<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>			
B-2 FIRE DEPT. RECONSTRUCTION						
Fire Dept. Training Center (2696)						
Renovations						
A. M. Hardy	11-23-66	3-27-67	\$ 6,026	\$ 6,026	General	
Engine House No. 49 (2726)						
Door Replacement						
Thornburgh Const. Co.	12-16-66	85%	4,748	0	General	
Total Aggregate Value and Amount Expended			\$ 10,774	\$ 6,026		

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
C-1 SAN FRANCISCO HOSPITAL					
Pathology Bldg. & Animal (2375) Care & Research Fac. S.J. Amoroso Const. Co.	5-25-64	4-19-66	\$1,230,606	\$123,061	1954 Hospital
Mod. of Surgical Area (2490) Bldgs. 1, 1A, 1B, 1C Arntz Bros.	4-7-65	10-22-66	250,088	63,334	General
Remodeling X-Ray Dept. (2560) Part 2A Kenneth K. Lind	8-4-65	6-16-66	35,368	8,575	General
Remodel Ward 63 into a (2587) Mental Treatment Ward Walter Petersen & Co.	11-19-65	5-20-66	42,400	11,004	General
Emergency Alarm & Inter-(2633) com Syst. Bldg. #90 Executone Co. of N. Calif.	4-1-66	7-8-66	4,985	4,985	General
Elec. Dist. Facilities (2630) Enterprise Elec. Works	4-13-66	99%	51,526	0	General
Removal of Metal Fire (2629) Escapes & Relocation of Standpipes Mitchell Plumbing Co.	4-20-66	9-23-66	9,476	9,476	General
Remodel. X-Ray Dept. (2593) Parts 2B, 2D, and 3 Kenneth K. Lind	4-22-66	85%	161,446	138,028	General

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>		<u>1966-67</u>	
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	<u>Amount Expended 1966-67</u>
C-1 SAN FRANCISCO HOSPITAL (Contd)				
Remodel. West End Inten. (2674) Care Unit, Ward 12 into Special Section Walter Petersen & Co.	6-17-66	5-12-67	\$ 22,300	\$ 23,776
				General
Intercom System for (2685-R) X-Ray Dept. - Special Procedure Area A.B. Loudermilk Co.	6-24-66	9-8-66	460	460
				General
Conn. Local Fire Alarm (2691) Syst. of Path. Bldg. with Aux. Proprietary System Monson Electric Co.	7-8-66	8-28-66	2,226	2,226
				General
New Cubicle Curtain Track Syst. Various Wards (2698) Wm. McIntosh & Son	9-14-66	4-28-67	15,719	16,780
				General
Install. Movable Partitions (2710) Mental Treatment Ward 63 The Brookman Company	9-28-66	12-29-66	1,371	1,371
				General
Remodel Ward 33 into (2719) Intensive Care Coronary Center Leon Carlen	11-30-66	80%	35,841	32,432
				General
Expansion & Remodeling (2736) Admitting-Emergency Unit Bldg. No. 1 - Main Floor Leon Carlen	3-10-67	7%	99,999	16,446
				General

<u>Description & Contractor</u>	CURRENT CONTRACT DATA 1966-67			<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	
C-1 SAN FRANCISCO HOSPITAL (Contd)				
Remodel Nurses' Home Bldg. (2723) for Outpatient Facilities DeNarde Constr. Co.	3-23-67	2%	\$ 142,800	General
Bldg. #1, 2nd Floor (2826) Electronic Door Hardware Stanley Magic-Door Equip.	6-14-67	0	\$ 395	General
New Cubicle Curtain Track (2838) & Misc. Work, Ward 24 Wm. McIntosh & Son	6-14-67	0	3,536	General
Improve X-Ray Dept. (2792-R) Service Bldg. No. 6 Star Iron Works	6-21-67	0	2,722	General
Total Aggregate Value and Amount Expended			<u>\$2,113,264</u>	<u>\$467,376</u>

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	
C-2 LAGUNA HONDA HOSPITAL				
Alterations to Wards (2442) A1, C2 and C5 Arntz Bros.	1-22-65	9-15-66	\$ 128,602	General
Alterations to Ward (2645) A-1, 5231-0" & 5121-6" Kenneth K. Lind	6-24-66	1-6-67	20,322	General
Fire Protection (2743-R) Sprinkler System Allan Auto.Sprinkler Corp.	4-5-67	0	32,530	General
Clarendon Hall (2831) Exterior Painting C.L. Disheroon	6-23-67	0	12,363	General
Total Aggregate Value and Amount Expended			\$ 193,817	
			\$ 74,000	

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA 1966-67</u>			<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	<u>Amount Expended 1966-67</u>
C-3 HEALTH CENTER BUILDING				
Westside Health Center (2520) Gen. Construction Colwell Const. Co., Inc.	5-26-65	95%	\$537,344	\$269,670 General
Health Center Bldg. (2554) 101 Grove St. Alt. to 2nd Floor Kenneth K. Lind	12-15-65	10-25-66	24,203	3,707 General
Bayview Health Center (2650) Gen. Construction Landes Const. Co.	5-13-66	76%	550,899	397,647 General
Sunset-Richmond Health Center (2757) General Construction John A. Nelson	5-31-67	0	636,700	0 General
Total Aggregate Value and Amount Expended			\$1,749,146	\$671,024

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
D - deYOUNG MUSEUM					
Steam Cleaning (2658) Easterly Portion Thomas F. Kenny, Jr.	4-22-66	9-27-66	\$ 4,475	\$ 4,475	General
Auditorium Dimming (2637) System-West Wing Hampton Elec. Co.	4-20-66	9-7-66	3,840	3,840	General
Total Aggregate Value and Amount Expended			\$ 8,315	\$ 8,315	

<u>Description & Contractor</u>	CURRENT CONTRACT DATA		<u>1966-67</u>	<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>			
E - YOUTH GUIDANCE CENTER					
Cottage B-1 (2725)					
Renovations					
Leon Carlen	1-18-67	76%	\$ 20,800	\$ 18,597	General
Total Aggregate Value and Amount Expended			\$ 20,800	\$ 18,597	

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
<u>F - CIVIC CENTER</u>					
Civic Auditorium (2495) Rigging & Pipes for Basic Stage Curtains & Draperies B.F. Shearer Co.	4-2-65	12-12-66	\$ 74,545	\$ 19,264	General
City Hall (2618) Alterations to Court Rm 426 Leon Carlen	2-18-66	8-2-66	4,897	4,897	General
Veterans Building (2648) Modern. of Art Museum Rotunda Ceiling Mattern Const. Co.	5-13-66	12-15-66	7,300	7,300	General
Veterans Building (2660) Int. Paint of Lobby New Method Paint. & Dec.	5-6-66	7-8-66	2,397	2,397	General
Opera House (2653) Bar Sink Replacement Wm. McIntosh & Son	5-6-66	8-26-66	1,068	1,068	General
Veterans Building (2654) Metal Sink Replacement & Misc. Work Thoma's Sheet Metal Shop	5-6-66	8-23-66	2,980	2,980	General
Veterans Building (2672) Int. Painting, South Gallery & Corridors J. Wm. Sorensen	5-20-66	7-6-66	2,309	2,309	General

<u>Description & Contractor</u>	CURRENT CONTRACT DATA			1966-67	Amount Expended 1966-67	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>			
Veterans Building (2689) Acoustical Ceiling & Lighting, Room 110 Pritchard & Stone, Inc.	6-29-66	9-26-66	\$ 2,485	\$	2,485	General
Civic Center Auditorium (2688) Fire Retardant Treatment Amer. Waterproofing Co.	8-5-66	10-21-66	8,304		8,304	General
City Hall (2701) Alt. to Court Room 435 Moreau Constr. Co.	9-14-66	5-18-67	10,999		11,276	General
City Hall (2711) Elec. Data Processing Central Complex, Phase I Wilco Constr. Co.	10-7-66	6-8-67	40,220		41,144	General
City Hall (2730) Additions to Centrex Telephone Exchange Wilco Constr. Co.	11-25-66	99%	17,480		15,394	General
City Hall (2731-R) Demountable Metal Partitions Room 29, City Attys Office Moreau Constr. Co.	12-7-66	2-3-67	715		715	General
City Hall (2777) Alts. to Room 375 for new Superior Court Room Wilco Const. Co.	12-28-66	40%	39,240		10,216	General

<u>Description & Contractor</u>	CURRENT CONTRACT DATA			1966-67	Amount Expended 1966-67	Fund
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>			
F - CIVIC CENTER (Contd)						
Veterans Building (2744) Int. Painting West Gallery Thomas F. Kenny	1-6-67	5-31-67	\$ 870	\$ 870	General	
Opera House (2727) Repair Plaster Ceilings & Walls, 4th Floor Patrick J. Ruane, Inc.	1-4-67	80%	975	0	General	
Opera House (2747) Bar Sink Replacement Thoma Sheet Metal	2-3-67	5-8-67	2,460	2,610	General	
Veterans Building (2752) Wall Upholstery - Main & Northwest Galleries S. Brown Company	3-1-67	90%	2,766	0	General	
Veterans Building (2769) Repairs & Replacement of Elevator Sidwalk Doors Buttram & Collins Iron Works	3-8-67	6-26-67	1,827	1,827	General	
Veterans Building (2738) Storage & Exhibit Handling Area - Phase I	3-8-67	25%	23,222	0	General	
City Hall (2767) Alts. Muni.Court Rm.310 Moreau Constr. Co.	4-26-67	0	11,888	0	General	

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>		<u>1966-67</u>		<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	<u>Amount Expended 1966-67</u>	
F - CIVIC CENTER (Contd)					
Opera House (2802)					
Guard Railings for Tapestries	4-26-67	0	\$ 2,985	0	General
Ashby Metal Prod., Inc.					
Veterans' Building (2811)					
Kitchen Renovations					
Basement Auditorium	5-17-67	0	5,659	0	General
TransWestern Constr. Co.					
Opera House (2760(E)-R)					
Special Equipment for Intercom, Paging & Closed Circuit T.V. Systems	6-14-67	0	25,389	0	General
A.B. Loudermilk Co.					
Opera House & Vets Bldg. (2760-R)					
Rehab. - Phase 3	6-14-67	0	290,475	0	General
Merz Brothers					
Veterans Building (2783)					
S.F. Museum of Art, Repairs to Elect. System	6-14-67	0	3,481	0	General
Electrical Const. & Sales					
S.F. Museum of Art (2836)					
Sanding & Floor Refinishing	6-14-67	0	650	0	General
Marina Hardwood Floor Co.					

<u>Description & Contractor</u>	CURRENT CONTRACT DATA		1966-67	Amount Expended 1966-67	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>			
F - CIVIC CENTER (Contd)					
Opera House & Vets Bldg. (2837)					
Painting Work					
Rainbow Painting & Dec. Co.	6-30-67	0	\$ 3,230	0	General
Total Aggregate Value and Amount Expended			\$590,816	\$135,056	

<u>Description & Contractor</u>	CURRENT CONTRACT DATA 1966-67			<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	
G - HALL OF JUSTICE				
Public Defender's Office (2717)				
Alt. to Room 208				
Moreau Const. Co.	10-26-66	1-18-67	\$ 5,290	General
Bur. of Criminal Info. (2764)				
Demountable Metal Partitions				
Moreau Const. Co.	2-24-67	50%	1,104	General
Various Offices (2759)				
Acoustical Treatment				
Harold E. Shugart, Inc.	2-24-67	6-5-67	1,712	General
Adult Probation Dept. (2781)				
Public Address System				
Communication Systems, Inc.	4-5-67	5-26-67	1,168	General
Jury & Witness Screens (2770)				
Cabinet Work, Court Rooms				
Kenneth K. Lind	4-5-67	0	7,552	General
Total Aggregate Value and Amount Expended			\$ 16,826	\$ 8,170

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>		<u>Contract Amount</u>	<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>			
H - MISCELLANEOUS					
Palace of Fine Arts (2190) Gen. Construction M & K Corporation	6-19-64	98%	\$6,813,394	\$974,154	1959 Bond Private State Fund
Golden Gate Park (2328) New Nursery Facilities Stenmark Const. Co.	3-19-65	1-30-67	266,545	77,984	General
Hamilton Annex Rec. Area (2535) Gen. Const. New Fieldhouse DeNarde Const. Co.	9-8-65	8-8-66	107,762	35,200	General
Junior Boys School Facility (2607) Log Cabin Ranch School General Site Grading O. C. Jones & Sons	12-10-65	7-29-66	16,288	16,656	General
Dept. of Public Works (2603) Maintenance Yard Expansion H. E. Rahimann Co.	12-24-65	8-24-66	42,422	8,442	General
County Jail Bldgs. 2 & 4 (2597) Ext. Painting, Caulking & Preparatory Work D. Zelinsky & Sons	2-4-66	5-23-66	39,812	13,712	General
Garfield Rec. Center (2543) New Fieldhouse Wilner Const. Co.	3-25-66	9-28-66	64,660	64,900	General
Western Addition Library (2665) Driveway Barricades Kenneth K. Lind	5-13-66	8-4-66	532	532	General

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
H - MISCELLANEOUS (Contd)					
City Planning Office (2684) Int. Painting-Variou Rms. Marco A. Vidal	6-8-66	9-8-66	\$ 575	\$ 575	General
Social Services (2563) Alt. Part 2 - Rehabil. 1680 Mission St. Arntz Bros.	1-12-66	98%	535,051	312,670	General
Log Cabin Ranch School (2636) Junior Facility General Construction Pacific Coast Builders	8-13-66	85%	964,900	821,710	1964 Log Cabin Bond Fund
Hassler Hospital (2699) New Cubicle Track System Wards 5A, 5B, 6A, & 6B Seneca of California	9-14-66	5-5-67	9,960	9,960	General
Lincoln Park (2702) Calif. Palace of Legion of Honor Wall Upholstery Gallery No. 3 S. Brown Company	9-16-66	11-23-66	2,432	2,432	General
Excelsior Branch Library (2523) General Construction Wilner Const. Co.	9-14-66	90%	191,400	154,442	General
Lincoln Park (2714) Remodel. Achenbach Quarters Calif. Palace Legion of Honor Moreau Const. Co.	11-2-66	5-22-67	19,594	20,135	General

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u> 1966-67			<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>	
			<u>Amount Expended 1966-67</u>	
H - MISCELLANEOUS (Contd)				
Golden Gate Park Senior Ctr. (2721)				
Metal Emergency Stairs				
New Mission Iron Works	11-23-66	5-8-67	\$ 1,685	General
Candlestick Park (2720)				
Waterproofing for part of				
Lower Stands				
Arthur W. Baum	11-30-66	3-7-67	6,429	General
Lincoln Park (2728)				
Calif. Palace Legion of Honor				
Wall Upholstery, Galleries				
Nos. 4, 5 and 6				
S. Brown Company	11-30-66	0	9,332	General
Golden Gate Park (2729)				
Scaffolding for Pagoda				
Japanese Tea Garden				
Safway Steel Products	12-30-66	99%	1,809	General
Lincoln Park (2754)				
Install. Plexiglas for				
Protection of Achenbach				
Collection				
Moreau Const. Co.	2-24-67	6-13-67	3,500	General
Folsom Playground (2758)				
Alts. to Fieldhouse				
Moreau Const. Co.	3-24-67	6-6-67	5,905	General
Golden Gate Park (2785)				
Bowling Green Clubhouse Alts.				
Louis E. Ravano	5-10-67	0	4,719	General

<u>Description & Contractor</u>	CURRENT CONTRACT DATA 1966-67			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
H - MISCELLANEOUS (Contd)					
Dept. Social Services (2746)					
Air Exhaust Sys. - 1st Floor					
150 Otis Street					
Colan Heating & Sheet					
Metal Co., Inc.	5-10-67	0	\$ 3,567	0	General
Hamilton Rec. Center (2807)					
Acoust. Treat.-Natorium					
James L. Whittaker	5-24-67	0	6,762	0	General
Japanese Tea Garden (2794)					
Rehab. Pagoda & Gate Struc.					
Nibbi Bros., Inc.	5-26-67	0	22,209	0	General
Aquatic Park Drinking Fountain					
Cagwin & Dorward	6-2-67	0	4,877	0	General
Calif. Palace Legion of Honor (2818)					
Wall Repair					
Trans Western Constr.	6-7-67	0	4,349	0	General
Garfield Rec. Center (2816)					
Acoustical Treatment for Natorium.					
Pritchard & Stone, Inc.	6-14-67	0	5,173	0	General
N. Beach Rec. Center (2815)					
Acoustical Treatment for Natorium					
James L. Whittaker	6-9-67	0	4,813	0	General

<u>Description & Contractor</u>	<u>CURRENT CONTRACT DATA</u>			<u>Amount Expended 1966-67</u>	<u>Fund</u>
	<u>Awarded</u>	<u>Completed Date or %</u>	<u>Contract Amount</u>		
H - MISCELLANEOUS (Contd)					
Legion of Honor (2809)					
Electrical Switchboard Reconstruction					
Elect. Constr. & Sales	6-14-67	0	\$ 33,453	0	General
Dept. Social Services (2823)					
Exterior Painting					
A. Quandt & Sons	6-14-67	0	8,700	0	General
Larsen Park Rec. Center (2828)					
Acoustical Treatment for Nataatorium					
James L. Whittaker	6-30-67	0	4,688	0	General
McLaren Park Rec. Center (2830)					
Acoustical Treatment for Nataatorium					
James L. Whittaker	6-30-67	0	4,370	0	General
Balboa Park Rec. Center (2827)					
Acoustical Treatment for Nataatorium					
James L. Whittaker	6-30-67	0	5,979	0	General
Total Aggregate Value and Amount Expended			\$9,217,646	\$2,531,023	

